WEST CHESTER STATE COLLEGE BULLETIN

UNDERGRADUATE STUDIES 1977-1978

ACADEMIC CALENDAR 1977-78

FALL SEMESTER 1977

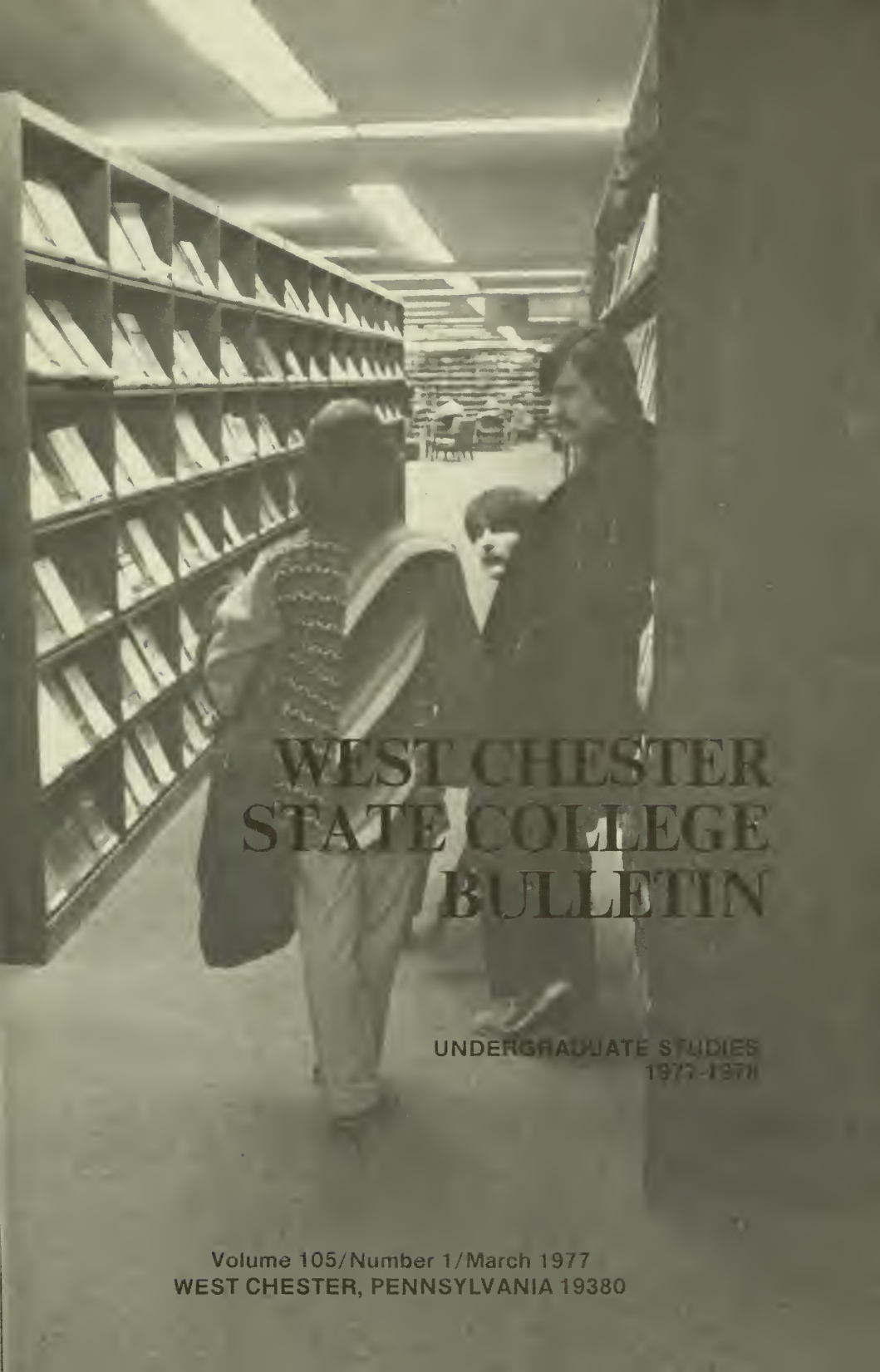
September 6, Tuesday	Faculty Meetings
September 6, Tuesday	Classes Begin
November 23, Wednesday	Thanksgiving Recess Begins (Close of Classes)
November 28, Monday	Thanksgiving Recess Ends (8:00 a.m.)
December 17-23, 1977	Examination Period
December 23, Friday	Fall Semester Ends (Close of Classes)

SPRING SEMESTER 1978

January 16, Monday	Classes Begin
February 20 (Monday) and February 21 (Tuesday)	Presidential Holiday
March 21, Tuesday	Spring Vacation Begins (Close of Classes)
March 29, Wednesday	Spring Vacation Ends (8:00 a.m.)
May 6, Saturday	Alumni Day
May 13-19, 1978	Examination Period
May 19, Friday	Spring Semester Ends (Close of Classes)
May 20, Saturday	Graduation

SUMMER SESSIONS 1978

Pre Session	Monday, June 5 - Friday, June 23
Regular Session	Monday, June 26 - Friday, August 4
Post Session	Monday, August 7 - Friday, August 25



WEST CHESTER STATE COLLEGE BULLETIN

UNDERGRADUATE STUDIES
1977-1978

Volume 105/Number 1/March 1977
WEST CHESTER, PENNSYLVANIA 19380

Baccalaureate Programs at West Chester State College

BACHELOR OF ARTS

American Studies
Anthropology-Sociology
Art
Biology
Economics
Foreign Languages
French Russian
German Spanish
Latin
Geography
History
Literature
Mathematics
Mathematics-Computer Science
Music
Philosophy
Philosophy-Religion
Physics
Political Science
Political Science—Public Administration
Psychology
Social Work
Speech Communication
Theatre Arts

BACHELOR OF MUSIC

BACHELOR OF SCIENCE

Business Administration
Accounting Management
Economics Marketing
Chemistry
Chemistry-Biology
Chemistry-Geology
Clinical Chemistry
Computer and Information Sciences
Criminal Justice
Earth Science
Nursing
Public Health

BACHELOR OF SCIENCE IN EDUCATION

Elementary Education

Secondary Education
Biology
Chemistry
Communications
Earth and Space Sciences
English
Foreign Languages
French German Latin
Spanish Russian
General Science
Mathematics
Physics
Social Studies
Geography History
Political Science

Health Education

Health and Physical Education

Music Education

Speech Pathology and Audiology

Cooperative Degree Program for Dental Hygienists.

Certification Programs at West Chester

Driver Education and Safe Living
Environmental (Outdoor) Education
Teaching the Mentally Retarded
Teaching the Physically Handicapped
Athletic Coaching

Continuing Education at West Chester

In addition to the degree and certification programs listed above, West Chester offers a variety of courses for non-degree students seeking vocational advancement or personal enrichment. Further details are available from the Educational Development Center.

Introducing West Chester

Quality education at a reasonable price. . .this is the goal of West Chester State College, one of the largest of the fourteen institutions of higher learning owned and maintained by the Commonwealth of Pennsylvania. A comprehensive and multi-purpose college, West Chester serves individuals of all ages offering a variety of programs to fill their educational needs.

Listed in detail on the opposite page, these encompass liberal arts, science programs, teacher training and certification, preparation for advanced study in fields such as medicine and law, education for specific professions, and continuing education.

Total enrollment at West Chester includes more than 6,100 full-time undergraduate students, about 1,300 part-time undergraduates, and nearly 1,900 graduate students. While most of these are recent high school graduates preparing for career objectives, many others are older individuals including veterans and homemakers who either never before had the opportunity for a college education or whose schooling was interrupted.

While the school's primary function is the education of Pennsylvania residents, high quality students from other states and foreign countries are welcome. West Chester's student body represents a cross section of many ethnic, racial, and religious groups and includes students from all economic levels.

Like the world around it, West Chester State College is constantly changing and growing. The school continues to broaden and modify the nature and number of its programs to reflect the needs of its students in their endeavor to prepare themselves for success and fulfillment in life.

HISTORY OF THE COLLEGE

Although its founding year is 1871, the college in fact has deeper roots tracing from the West Chester Academy, a private, state-aided school which existed from 1812 to 1869. The academy enjoyed strong support from the highly intellectual Chester County Society of the pre-Civil War decades. It was recognized as one of Pennsylvania's leading preparatory schools, and its experience in teacher-training laid the groundwork for the normal school years that were to follow.

As the state began to take increasing responsibility for public education, the academy was transformed into West Chester State Normal School, still privately owned but state-certified. The normal school admitted its first class of 160 students on September 25, 1971. In 1913 West Chester became the first of the normal schools to be owned outright by the Commonwealth.

West Chester became West Chester State Teachers College in 1927 when Pennsylvania initiated a four-year program of teacher education. In 1960, as the Commonwealth paved the way for liberal arts programs in its college system, West Chester was renamed West Chester State College, and two years later introduced the liberal arts program which turned the onetime academy into a comprehensive college.

LOCATION OF THE COLLEGE

West Chester State College is in West Chester, a town which has been the seat of government in Chester County since 1786. With a population of about 20,000, the borough proper is small enough to have the pleasant aspects of a tree-shaded American town, large enough to contain essential services and the substance of a vigorous community, and old enough to give the student first-hand touch with America's early history.

Students may walk to West Chester's many churches. The town has excellent stores and shops and a fine hospital. In the heart of town is its courthouse, a classical revival building designed in the 1840's by Thomas U. Walter, one of the architects for the Capitol in Washington, D.C. West Chester was settled in the early 18th century, principally by members of the Society of Friends; charming traces of their culture remain in the community.

West Chester today is part of the rapidly growing suburban complex surrounding Philadelphia and offers interesting opportunities for the study of local, county, and regional government in a period of change and growth.

Philadelphia is 25 miles to the east and Wilmington 15 miles to the south, putting the libraries, museums, and other cultural and historical resources of both cities in easy reach. Valley Forge, the Brandywine Battlefield, Longwood Gardens, and other historical attractions are near West Chester.

HOW TO REACH WEST CHESTER

The Borough of West Chester is easily accessible from all directions both by car and public transportation. Route 3, the West Chester Pike, leads directly into town from center-city Philadelphia. From the Pennsylvania Turnpike, motorists traveling west should take Route 202 south from the Valley Forge Interchange while those traveling east can arrive via Route 100 south from the Downingtown Interchange. From the south, Route 202 from Wilmington and Route 100 and 52 from U.S. Route 1 all lead to West Chester.

By public transportation, SEPTA buses run from the 69th Street Terminal in Philadelphia into the center of town while the Penn Central Railroad also operates a limited schedule from Philadelphia's 30th Street and Suburban Stations to West Chester.

DESCRIPTION OF THE CAMPUS

The college has a land area of 385 acres. North Campus, an expansion of the original campus, occupies 94 acres at the southern boundaries of the Borough of West Chester. South Campus, which came into full use in 1970, is a 291-acre expanse of the gently rolling countryside which Andrew Wyeth has defined in his landscapes of Chester County.

Fronting on South New street 3/4 mile south of the original college, South Campus contains the huge new Health and Physical Education Center, which has won national acclaim for the quality and extent of its teaching, performance, and research facilities. John A. Farrell Stadium, playing and practice fields, and tennis courts surround the center. Included in the open areas is a stretch of natural forest, part of which has been conserved as a resource for the natural sciences. Other sectors are marked for future building development.

Architecturally, North Campus combines late 19th century, collegiate Gothic, and contemporary styles. Three of the college's green-hued serpentine stone buildings, which have given West Chester a unique character for many decades, are still in use. The college is also known for its magnificent old trees.

A massive building program in the last decade produced a number of major facilities and utilities which equip the college well for the needs of modern education. The Learning Research Center, the library, Mitchell Hall (Fine Arts), and the two phases of Schmucker Science Center are major additions, along with six high-rise residence halls which span the western side of North Campus.

MITCHELL HALL
ART GALLERIES
ART STUDIOS
ART OFFICES
MUSIC STUDIOS

HOPE HALL

PRINCIPAL BUILDINGS OF NORTH CAMPUS

Anderson Hall (1938) is a large five-floor classroom building, extensively renovated in 1966, which houses the offices of the dean of the School of Education, the office of the director of student teaching, and the Departments of Business and Economics, Counselor Education, Elementary Education, Secondary Education and Professional Studies, Geography and Planning, Instructional Media Education, Mathematics, and Psychology.

Elsie Oleita Bull Learning Research Center (1968), contains the computer center, a television studio, Turks Head Theatre, Studio Theatre, COPE/PRIDE Project, Day Care Center, Early Childhood Program, and the offices of Research and Related Services, Dean of Undergraduate Studies, Admissions, Registrar, Scheduling and Academic Records, and the Coordinator of Summer School.

Ehinger Gymnasium (1930) and *Hollinger Field House* (1949) are connected buildings serving the School of Health, Physical Education, and Recreation and housing the Recreational Services Program.

Francis Harvey Green Library (1966) is described below.

Lawrence Center (1965), houses the Career Development Center, the Counseling Center, the campus post office, dining halls and a snack bar.

Main Hall (1974) is the newest of the classroom buildings and meets the needs of many humanities programs. The administrative offices of the School of Arts and Letters are in Main, as are the Departments of English, Foreign Languages, History, Philosophy, and Speech Communication and Theatre. A lecture hall seating 400 and the language laboratory are major features of Main, which stands on the grounds of the college's original building, Old Main.

Maintenance Building (1968) is a multi-purpose building accommodating the Plant Maintenance and Department of Law Enforcement offices, various maintenance shops, the Centrex Automatic telephone exchange, and the fire detection center.

Lloyd C. Mitchell Hall (1970), a fine-arts classroom building, is the location of the Art Department and its exhibition galleries. It also provides additional classrooms, practice rooms, and offices for the School of Music whose building (Swope Hall) is adjacent to the new hall.

Old Demonstration School (1899), contains the offices of Graduate Studies, dean of the School of Social and Behavioral Sciences, and the Department of Government and Politics.

Old Library (1902), a Classical Revival serpentine building, contains Educational Media Services, College Duplication Center, College Information and Publications, Social Welfare Center, the Department of Anthropology, Sociology, and Social Welfare, the office of the director of international education, and Chester County Instructional Materials Service.

Philips Memorial Hall (1925) is an outstanding example of collegiate Gothic which houses the Office of the President, the Office of the Vice-President for Administration and Fiscal Affairs, the Office of Business Affairs, Philips Memorial Library, the college's largest auditorium, the faculty lounge, and conference rooms.

Recitation Hall (1892), a serpentine building, holds classrooms, the Reading Clinic, the Department of Nursing, and the Individual Learning Service Center.

Reynolds Hall (1871), a former farm house, is occupied by the College Health Service and the administrative offices of the Division of Facilities.

Schmucker Science Center (1968), a two-phase center including the Biological Sciences and Physical Sciences buildings, contains classrooms and laboratories, a planetarium, astronomical observatory, television studio, an auditorium, and the Darlington Museum and Herbarium. The administrative offices of the School of Sciences and Mathematics are in Schmucker.

Special Education Building (1960) contains classrooms, a clinic area for special education, and offices of the coordinators of special education and urban education.

Swope Hall (1959) houses the School of Music, including offices, classrooms, an auditorium, choral and instrumental rooms, a music library, and a music listening room.

Sykes College Union Building (1975), of modern design, contains the offices of the Vice-President for Student Affairs, Student Housing, the Director of Student Activities, I.G.A. Business Manager, I.G.A. Ticket Sales and Student Government. The college book store, conference rooms, lounges, the college newspaper and the college radio broadcasting studio are also found in Sykes.

Tanglewood, a historic and handsome house with beautiful grounds, is the residence of the president of the college.

Residence Halls include Killinger (1959), McCarthy (1960), and the following high-rise halls; Goshen, Ramsey, and Tyson (1966); Sanderson (1969); and Schmidt and Wayne (1971).

A boiler plant, water pedisphere, garage, and housekeeping building, along with several annex houses, complete the physical plant of North Campus.

PRINCIPAL STRUCTURES OF SOUTH CAMPUS

Health and Physical Education Center (1970), contains a one-acre gymnasium, divisible into six pneumatically sealed gymnasiums; a three-point natatorium; multi-purpose teaching stations; research facilities; administrative offices; 16 lecture classrooms; two dance studios, a physiological research laboratory; two physical therapy rooms; two sauna baths, and other facilities.

John A. Farrell Stadium (1970) provides spectator seating for 7,500 at varsity football, soccer and track events, a press box, lighting for night games, and concessions and rest areas.

Athletic Field Complex (1969-70) includes playing and practice fields for football, hockey, soccer, lacrosse, and baseball; tennis courts; night lighting; and parking for 1,000 cars.

WELKINWEIR

West Chester's most recent land acquisition is Welkinweir, the 166-acre, northern Chester County estate which was presented to the college as a gift by Mr. and Mrs. Everett G. Rodebaugh.

The stone mansion at Welkinweir dates back to 1750 with an 1800 addition as well as a wing added in 1940. Filled with a remarkable collection of historically valuable books, antiques and objets d'art, the residence is now used for concerts, seminars and conferences.

Highlights from among the contents include numerous authenticated Chester County pieces of furniture, an E.M. Skinner Automatic Pipe Organ (one of only five still in existence in working order in the country), a Mason & Hamlin Piano, antique clocks, an English silver collection, and a variety of oriental rugs.

Welkinweir's grounds contain a six-acre, man-made lake and seven ponds; lawns; forested areas; and unusual plantings. Access to the Appalachian Trail can be made from the Horseshoe Trail which passes through the property.

FRANCIS HARVEY GREEN LIBRARY

The Francis Harvey Green Library provides an excellent environment for study and research. With the opening of a new six-story addition in the fall of 1976, the library has added to and greatly expanded its facilities. The total complex will house one-half million books. It is furnished with a varie-

ty of seating areas including individual study carrels; faculty, graduate, and undergraduate studies and lounges; typing rooms; group studies; seminar rooms; and general reading areas.

The library has an increasingly important role in both teaching and research with its growing collection of more than 332,000 volumes and subscriptions to over 2500 journals. Augmenting this general collection with more than 300,000 titles is the micromedia collection including books, periodicals, newspapers and doctoral dissertations along with the facilities to read this material.

Other noteworthy collections can be found in the library complex. An extensive holding of courses of study and textbooks and a variety of audio-visual materials are held in the instructional materials center; sheet music, scores, and records are housed in the Music Division located in Swope Hall. Also available are separate collections for children's literature, government documents, and maps.

The Special Collections Room holds the Chester County Collection of scientific and historical books; the Normal Collection, publications by and about the faculty and alumni; the Ehinger Collection (a collection of historical books on physical education); the *Biographies of the Signers of the Declaration of Independence* by John Sanderson; and the Shakespeare Folios. The Philips Autographed Book Library is kept in a specially designed room in the Philips Memorial Building.

West Chester students may take advantage of the library's many services such as reference, interlibrary loan, and photoduplication. To add to the cultural enrichment of the college community the library schedules informative displays and art exhibits throughout the year.

BUREAU OF EDUCATIONAL MEDIA SERVICES

The Bureau of Educational Media Services offers a variety of services to the undergraduate and graduate programs of the college. They are available to the faculty, administration, and students in the following areas:

1. Graphic arts includes printing, duplicating, copying, photography, illustrating, mounting, lettering, and projectual production.
2. Television offers live programming from commercial and public broadcasting stations, video taping and replay, studio productions, and portable television equipment for remote productions.
3. The Audio-Visual Center offers equipment and material distribution to the classroom. This includes the renting of films and other related materials.
4. Media programming includes carrels and materials for individualized instruction.
5. Technical services of a non-instructional nature includes the functions of the Student Electronic and Television Services (S.E.T.S.).
6. College Information serves as the clearing house for all publicity and advertising on college activities as well as the achievements of members of the college community.
7. Publications prepares the college catalogs, brochures, campus maps, and other major printed material not produced in the Printing-Copying Center.
8. Photography includes instructional and administrative services.
9. I.D. photographs are taken for students, faculty and staff by Educational Media Services.

CHESTER COUNTY INTERMEDIATE UNIT INSTRUCTIONAL MATERIALS SERVICE

West Chester is headquarters for this center, which makes more than 5,200 films available to the 138 schools it serves. The center also maintains the college film library and promotes effective use of instructional materials and technology in the 12 affiliated school districts. College faculty and students teachers may make use of these facilities.

CONTINUING EDUCATION

West Chester is concerned about the educational needs of everyone beyond compulsory school age who is interested in educational opportunities on either a full-time or part-time basis. This includes those who can be served during the regular college schedule and those who may require special hours for their classes, if available resources will permit.

Such students enroll for a variety of reasons including personal, civic, cultural, professional, occupational, and social needs. Their educational activities on this campus are generally administered through the same channels as the regular degree programs. Their studies may be creditable toward a regular degree when proper criteria and requirements are satisfied.

Participants represent a wide range of age and economic status. They include recent high school graduates who cannot attend college full time, older students who return to college or enroll for the first time, employed individuals looking for advancement or a change in career, and many who merely wish to broaden their horizons through study.

West Chester's Continuing Education Program operates under the guidance of a college-wide committee for In-Service and Continuing Education, which functions under the aegis of the vice-president for academic affairs. It is an operation of the Educational Development Center.

Current programs include (1) in-service courses carrying graduate credit and/or in-service credit, (2) undergraduate credit courses, and (3) non-college credit work accomplished in terms of a Continuing Education Unit (CEU) which is at the ratio of one CEU for each ten (10) contact hours.

OVERSEAS STUDY

The Junior Year Abroad Program, sponsored by the college, makes it possible for interested students to spend one or more semesters in France. Those interested in the French language pursue two semesters at the University of Montpellier. Students with interests in other areas of French life and culture may develop, with their departments, independent study programs or projects which can be facilitated by the West Chester faculty member in residence in Montpellier. See "Department of Foreign Languages" for details. The Consortium of Pennsylvania State Colleges sponsors an annual summer studies program, conducted in English, in Salzburg, Austria. Periodically, several of the schools offer field-study courses which take place in Europe or other overseas locations.

NATIONAL STUDENT EXCHANGE PROGRAM

West Chester is one of the 33 American colleges and universities, ranging from the University of Hawaii at Manoa to the Universities of Maine and Massachusetts, which participate in the National Student Exchange program. The project gives students an opportunity to widen their cultural and academic horizons through a semester or year of study in another part

of the United States, without paying out-of-state fees or incurring such complications as credit transfers. The exchange must take place during sophomore or junior years so that returning students may share their experiences with students at their home campus. The yearly number of West Chester students who may participate in the program is limited, and in order to qualify, students must have a 2.5 cumulative index. Recruitment generally takes place in November with announcements made on campus.

SPEECH AND HEARING CLINIC

The clinic, located on the second floor of Wayne Hall, provides diagnostic and therapeutic services for persons with speech and hearing problems. These services are available to college students, the college community, and residents of West Chester and the surrounding area. The clinic is maintained as a teaching-training facility for the degree programs in the Department of Speech Pathology and Audiology.

CULTURAL AFFAIRS

West Chester's unusually strong cultural affairs program is described under Student Life.

HIGHER EDUCATION OPPORTUNITY PROGRAM

Along with colleges throughout the nation, West Chester has faced its responsibilities toward a special kind of student on the American scene: the young people from ethnic and lower-income groups, with differing cultural backgrounds, whose educational experiences and opportunities have suffered as a result of neglects and inequalities within our society.

West Chester's answer was its Higher Education Opportunity Program, which accepts students who would either not qualify for regular admissions or could not attend college without financial aid. In nine years, the program has demonstrated that these young people can succeed academically under the impetus of a specifically designed entry program.

Facets of the program include academic preparation during a nine-week summer program, continued tutorial assistance and counseling support, and generally more individualized attention to the social and cultural needs of participating students.

The program has grown steadily, both in enrollment and in the scholastic achievement of its students. Those with a relatively good academic background in specific subject areas may now enroll in summer courses and earn up to nine credits. Others engage in supportive remedial programs designed according to individual needs. Additional information may be obtained from the Higher Education Opportunity Program Office, Administration Building.

ART COLLECTIONS

The college's Permanent Art Collection is made up primarily of gifts from interested art patrons, senior class purchases, and gifts from the alumni. A different selection from the collection is placed on view each year in the galleries in Lloyd C. Mitchell Hall. The Intracollegiate Governmental Association Permanent Art Collection also has a growing collection of art works which are on display at various times in both Mitchell Hall and the Francis Harvey Green Library. The IGA Collection consists of a number of important works such as the water color, "Andress Place," by Andrew Wyeth.

HISTORICAL PROPERTIES

Among a number of historical properties which came to the college as heritages from the Chester County Athenaeum, a literary society of the early 19th century, are letters to Anthony Wayne from George Washington, Israel Putnam, Benedict Arnold, and others. The college also possesses a mahogany clock which belonged to Benjamin Franklin and Anthony Wayne's telescope. Both were acquired from the West Chester Academy, forerunner to the present college.

DARLINGTON HERBARIUM

The Darlington Herbarium, housed in Schmucker Science Center, is one of the highly regarded historical collections of dried plant specimens in the East. Among the 30,000 specimens are plants collected by such famous explorers and botanists as Captain John Fremont, Thomas Nuttall, Sir William Hooker, C. S. Rafinesque, and George Engelmann. More than 200 collectors from America's formative years of 1820 to 1850 are represented. The herbarium was the work of Dr. William Darlington (1782-1863), a member of the West Chester Cabinet of Science. Dr. Darlington was eminent in West Chester as a physician, educator, banker, businessman, historian, and botanist. His plants, however, were his first love. A state park has been established in northern California to preserve a rare species of insectivorous plant named in his honor—*Darlingtonia.*

ROBERT B. GORDON NATURAL AREA FOR ENVIRONMENTAL STUDIES

The college has conserved a large area of natural woodlands, located on South Campus, and utilizes it for several kinds of outdoor studies in the natural sciences. Dedicated in 1973, the area was named for Robert B. Gordon, chairman of the college's Department of Science from 1938 to 1963.

MARINE SCIENCE CONSORTIUM

As a charter member of the Marine Science Consortium, West Chester, along with 17 other colleges and universities, provides opportunities for field studies in marine sciences at Lewes, Delaware, and Wallops Island, Virginia. Undergraduate and graduate courses are given each summer in five three-week sessions. The consortium offers courses in navigation, scuba diving, geology, biology, chemistry, and physics as well as cruises on two ocean-going vessels. Coastal Navigation, Marine Ecology, and Marine Geophysics are examples of recent offerings. During fall and spring semesters field trips to the stations are taken by classes in biology and earth sciences. For more information, consult either the Department of Biology or Department of Earth Sciences.

SUMMER SESSIONS

West Chester offers programs for both undergraduates and graduates during summer sessions.

Summer session catalogues, containing the course schedules, may be obtained from the director of admissions (for undergraduate studies) and the dean of graduate studies (for graduate studies).

GRADUATE STUDIES

West Chester's graduate program, introduced in 1959, has expanded rapidly and now offers study leading to Master of Education, Master of Arts, Master of Science, and the Master of Music degrees. West Chester schedules its graduate courses during the fall and spring semesters in the late afternoon and evening. It is possible to pursue full-time graduate programs during the academic year and during summer sessions.

The following graduate programs are offered:

Certification and/or Master of Education

- Biology
- Counselor Education
  (At West Chester State College, the master's degree is required for those seeking certification in counselor education.)
- Driver Education and Safe Living (Certification only)
- Elementary Education
- English
- French
- Geography
- German
- Health and Physical Education
- Instructional Media Education
- Latin
- Mathematics
- Reading
- Secondary Education
- Social Science
  - Concentrations in:
    - Anthropology/Sociology
    - Geography
    - History
    - Political Science
    - Psychology
    - Spanish
- Special Education
- Teaching the Emotionally Disturbed (Certification only)

Master of Arts

- Biology
- English
- French
- Geography
- History
- Mathematics
- Music
- Philosophy
- Physical Science
- Psychology
- Social Science
  - Concentrations in:
    - Anthropology/Sociology
    - Geography
    - History
    - Political Science
    - Psychology
    - Spanish
- Speech Pathology & Audiology
- Teaching English as Second Language

Master of Science

- Chemistry
- Counselor Education
- Criminal Justice
- Educational Research
- Health and Physical Education
- Instructional Media

Master of Music

- Music Education
- Music Theory or Composition
- Performance

Graduate catalogues and further information are available from the dean of graduate studies.

Admission to West Chester

West Chester State College evaluates its applicants on the basis of scholarship, character and potential for achievement in the programs to which they apply. The school operates on a rolling admissions policy so that applications are reviewed as received and applicants can be notified as quickly as possible of their status. Qualified students of any age as well as faculty and staff are welcomed at West Chester from all racial, religious, ethnic and socio-economic backgrounds. Studies may be pursued on a full or part-time basis.

GENERAL REQUIREMENTS FOR ADMISSION

1. Graduation, with satisfactory scholarship, from an approved secondary school, or approval by the Credentials Evaluation Division of the Pennsylvania Department of Education.
2. Either a satisfactory score on the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board (C.E.E.B.) or satisfactory scores on the tests given in the American College Testing Program (ACT).
3. An interview of admissions conference, for which the Office of Admissions will initiate arrangements at the proper time.

HOW AND WHEN TO APPLY FOR ADMISSION

For application forms and instructions, send the request form at the back of this catalog to the director of admissions.

Applicants for a fall semester are urged to begin the application procedure immediately after their junior year of secondary school. Facilities permitting, the director of admissions will accept applications into the spring of the year in which admission is desired.

Applicants for a *spring semester* should submit the request form by November 1. They must take their SAT or ACT no later than July 31.

Applicants for the nursing program are admitted only for the fall semester.

Last Day for Admission of New Freshmen. Completed application procedures must be in the Office of Admissions by July 1 for a fall semester or December 1 for a spring semester. If enrollment quotas are filled before these dates, admissions will be closed.

Notice of Decisions. Candidates will hear from the director of admissions as soon as possible after decisions are reached. The applicants' secondary schools will also be notified.

EXAMINATIONS REQUIRED FOR PLACEMENT PURPOSES

For placement purposes, all applicants must furnish at least one achievement test score. If ACT scores are submitted for admission they will, in many instances, also serve to provide the required achievement test score. However, *all* applicants who take the SAT for admission must submit scores on the C.E.E.B. English Composition Achievement Test and, in some cases, on one or two additional achievement tests.

Applicants who submit ACT scores for admission. The ACT, covering the fields of English, mathematics, natural science, and social science, produces all needed achievement test scores except in foreign languages. A test in foreign languages is therefore administered at West Chester by its Department of Foreign Languages. This test must be taken by:

1. Secondary education applicants who will major in foreign languages (provided they have studied a foreign language).
2. Applicants for all liberal arts programs (including music) which lead to the B.A. or the B.S. in chemistry (provided they have studied a foreign language).

These applicants must arrange to take the test by communicating with the Department of Foreign Languages for dates and details.

Applicants who submit the SAT score for admission. Although a second achievement test of the applicant's choice is strongly urged, the C.E.E.B. English Composition Achievement Test is the only placement test requirement in the following programs:

Business Administration
Criminal Justice
Elementary Education
Health Education
Health and Physical Education
Music Education
Music (B. Mus. Program)
Speech Pathology and Audiology
B.S. in Nursing
Public Health

In addition to the English Composition Achievement Test *applicants in secondary education* may submit scores for the achievement test in their major (concentration). If the major is English and the applicant has studied a foreign language, he may also submit achievement test scores in that language.

In addition to the English Composition Achievement Test, *applicants for all liberal arts programs* (B.A. programs including music and the B.S. in chemistry) may submit scores for the achievement test in their major and in their foreign language, provided they have studied one.

All achievement test scores must reach the Office of Admissions no later than June 1.

ARRANGING FOR TESTS

Information about C.E.E.B. or ACT may be obtained from guidance counselors or the Office of Admissions.

POLICY FOR DEFICIENT SCORES

Students whose scores are low on either the English Composition Achievement Test or the English section of the ACT tests are required to take a basic English course.

ADMISSION REQUIREMENTS IN SPECIFIC FIELDS

Health and Physical Education and Health Education. See School of Health, Physical Education, and Recreation for addition admissions requirements.

Mathematics. Mathematics majors must present three secondary units of mathematics, including algebra and plane geometry.

Music. See School of Music for additional admissions requirements.

Nursing. See Department of Nursing.

PHYSICAL EXAMINATION REQUIREMENTS

Except for the health and physical education programs, applicants are not asked to submit a health reference until they have been accepted for admission. Upon acceptance, they will receive a form for the necessary health examination. If the report indicates deficiencies which would handicap performance in certain professions, the college will give the student opportunity to select a field of study more appropriate to his state of health. But if the medical report shows that the student will not be able to meet the demands of any College program, admission will be revoked, and the acceptance fee of $75 refunded.

Health and physical education majors. A satisfactory medical report is required for admission to the health education and health and physical education programs. The necessary form will be supplied by the School of Health, Physical Education, and Recreation prior to its pre-admission interview.

POLICY ON EARLY ADMISSIONS

In exceptional circumstances, students with superior academic qualifications and unusually mature personal development are admitted as freshmen upon completing their junior year of secondary school. Students who, in the opinion of their guidance counselor, warrant consideration for early admission may obtain more information from the director of admissions. The closing date for application is June 1.

ACCEPTANCE OF AN OFFER OF ADMISSION

Each applicant who accepts an offer of admission to the college must sign an acceptance form which includes the following statement: "I hereby submit myself to the jurisdiction of the college and agree to be governed by the rules and regulations of the college now existing or to be adopted during the period in which I am enrolled as a student."

TRANSFER STUDENTS

Students previously enrolled, no matter how briefly, in another school of collegiate rank are classified as *transfer students.* Students whose cumula-

tive grade-point average is less than 2.00 will not be considered for admission.

All application procedures must be completed and in the Office of Admissions by July 1 for a fall semester or December 1 for a spring semester. If enrollment limits become filled before these dates, admissions will be closed.

APPLICATION PROCEDURE FOR STUDENTS TRANSFERRING FROM AN ACCREDITED INSTITUTION

1. File a transfer application form, available from the Office of Admissions.
2. See that the director of admissions receives:
   a. Two official transcripts of records from all institutions attended, with honorable dismissal shown. If preliminary (incomplete) transcripts are submitted, the student must see that completed transcripts are filed later.
   b. A letter of recommendation from the dean of students of the last college attended full-time, attesting that the student's citizenship record was entirely satisfactory.
   c. A letter from the applicant stating why he or she wishes to transfer to West Chester.
   d. Mid-term grades, if the student is enrolled elsewhere in the fall semester and applying to West Chester for the following spring semester.
3. If a student has completed less than 30 semester hours of credit he or she must supply an SAT score or ACT scores.

Upon acceptance, transfer students are given a health report form which must be completed. Admission is contingent, finally, upon a satisfactory health reference.

For administrative purposes, transfer students are classified as *commuting students.* (See Student Services)

Transfer students should also note the paragraph titled "Maintenance of Minimum Standards" in Academic information.

COLLEGE POLICIES FOR STUDENTS TRANSFERRING FROM A NON-ACCREDITED INSTITUTION

Applicants from collegiate institutions (including community colleges and junior colleges) which are *not accredited* by one of the six Regional Associations in the United States will be considered for admission under the following regulations:

1. An applicant's cumulative index must be 2.00 (C) or better and, in the cases of community and junior colleges, must meet their recommended mark for transfer.
2. The evaluation of *academic* courses listed on transcripts from an institution not accredited by one of the six Regional Associations will be made in accordance with the recommendations of the American Association of Collegiate Registrars and Admissions Officers in their *Report of Credit Given by Educational Institutions.* Thus, if the *Report* recommends that an institution's credits be recognized for transfer, West Chester will accept them for equivalent courses, dependent on approval from the student's major department.
3. The evaluation of courses applying to the special areas of health and physical education and music will be made by the respective schools in accordance with their policies as follows:
   a. *Health, Physical Education, and Recreation.* Under the provisions of the national professional association, all colleges offering health, physical education, and recreation have reciprocal transfer relationships. Thus, a student wishing to transfer in health and physical education will receive transfer credits in the major field in terms of major courses satisfactorily passed (C or better) at a college accredited by the National Council for Accreditation of Teacher Education and the American Association for Health, Physical Education, and Recreation. Academic courses will be evaluated as stated in 2, above.
   b. *Music.* Credit will be allowed only on the basis of music tests for music courses. Academic courses will be evaluated as stated in 2, above.
4. Applicants must submit SAT or ACT scores which meet the minimum established by the College for the curriculum concerned.

Application procedure: Follow procedure outlined above under "Application Procedure for Students Transferring from an Accredited Institution" except for its last item (3). Students applying from non-accredited institutions are uniformly required to submit SAT or ACT scores regardless of semester hours completed in other institutions.

ADMISSION OF COLLEGE GRADUATES SEEKING CERTIFICATION

College graduates who wish to obtain teaching certification should consult with the dean of the School of Education.

READMISSION OF FORMER STUDENTS

Students who have withdrawn from West Chester for acceptable reasons may ask the Office of Admissions for an application for readmission. Those who have attended any institutions of higher learning since leaving West Chester must request those institutions to forward transcripts of their records to the Office of Admissions.

Students intending to enroll in student teaching in the first semester of readmission must file an application for student teaching with the director of student teaching at least four months before their expected readmission.

All readmission applications must be filed not later than June 1 for the fall semester or December 1 for the spring semester. If enrollment quotas become filled before these dates, admissions will be closed.

Fees and Expenses

Fees and Expenses are subject to change without notice.

Unless otherwise specified, fees are paid by check or money order payable to: Commonwealth of Pennsylvania. Your canceled check or money order record serves as your receipt.

UNDERGRADUATE FEES

(as of Fall Semester 1976)

BASIC FEE FOR LEGAL RESIDENTS OF PENNSYLVANIA

Full-time students (between 12-18 semester hours)	$400.00 per semester
Extra charge for semester hours over 18	$ 33.00 per semester hour
Part-time students (11 semester hours or less)	$ 33.00 per semester hour

BASIC FEE FOR OUT-OF-STATE STUDENTS

Full-time students (between 12-18 semester hours)	$750.00 per semester
Extra charge for semester hours over 18	$ 60.00 per semester hour
Part-time students (11 semester hours or less)	$ 60.00 per semester hour

HOUSING FEE

The housing fee for students living in campus residence halls is $470 per semester and covers room ($270) and meals ($200) while the college is in session. The college charges commuting students $200 per semester for meals in the dining hall.

COMMUNITY CENTER FEE

Students pay a Community Center Fee based on the number of credits carried, as follows:

1 through 6 credits	$ 2.50 per semester
7 through 9 credits	$ 5.00 per semester
10 credits or more	$10.00 per semester

Community Center Fee is not refundable.

ROOM RESERVATION FEE

A room reservation fee of $50 is required, late in the spring semester, of all currently enrolled students who apply to the office of the associate deans of students for residence hall reservations for their next academic year. These applications must be made during a three-day period announced each spring in campus publications. The room reservation fee is *not refundable* but is credited to the housing fee for the following fall semester. The room reservation fee must be paid on the day of application by check or money order drawn to the "Commonwealth of Pennsylvania."

FINANCIAL OBLIGATIONS

Students and their parents or guardians should observe that all fees and expenses are subject to change without notice and that, since the acceptance of a student is for a semester, financial obligations are for a semester.

The college may authorize payments on a monthly basis to worthy upperclassman who are full-time students and whose circumstances require an installment payment schedule. Requests for the installment payment schedule should be sent to the director of business affairs. However, entering new students are expected to make full payment of fees and expenses by the registration deadline, unless they have supplementary scholarship aid.

ADVANCE PAYMENT OF HOUSING AND BASIC FEES

All students are required to pay their housing and basic fees in advance of each semester. The college sends bills for these fees preceding each semester. If payment is not made within the stipulated period, the student is dropped from the admissions list or the rolls of the college; loses all privileges and priorities, including his room reservation; and forfeits his room reservation fee.

Payments normally fall due each academic year as follows:

Fall semester	Early in August
Spring semester	Early in December

Any change in these dates will be shown on fall or spring semester invoices. Checks should be made payable to the "Commonwealth of Pennsylania" and mailed to:

Office of Business Affairs
West Chester State College
West Chester, Pa. 19380

APPLICATION FEE FOR NEW STUDENTS

An application fee of $10 is required of all applicants. It is not refundable under any circumstances and is not credited to a student's account. The application fee must be paid by cashier's check or money order (not personal check).

ACCEPTANCE FEE FOR NEW STUDENTS

The student accepts an offer of admission by paying an additional $75 as a guarantee of his intention to enter the college in the semester indicated. This fee is not refundable, but upon enrollment is credited toward the basic fee. If, before enrollment, the college finds it necessary to revoke admission on the basis of an unsatisfactory health report from the student's physician, the acceptance fee will be refunded. The acceptance fee must also be paid by cashier's check or money order.

DAMAGE FEE

Students are held responsible for damage, breakage, loss, or delayed return of college property and will be charged for any damage other than that occurring from normal use or deterioration. If a student damages college property while using an appliance not provided by the college, he is held liable for the repair of the college property.

PRIVATE MUSIC INSTRUCTION FEES

Every student whose program requires private lessons pays a basic semester fee of $45 to cover all half-hour lessons in the curriculum. When

hour lessons are required, the fee is $90. Elective and makeup lessons are billed at the rate of $45 per semester for each one-half hour of instruction per week.

Students pay no extra fee for the use of practice pianos. They are, however, charged for the following:

1. Pipe organ for practice, one period each weekday, $36 per semester.
2. Band or orchestra instruments, $6 rental per semester.

MISCELLANEOUS FEES

Record Transcript Fee of $1 charged to students for the second and all subsequent transcripts of records. The $1 fee also applies to those not currently enrolled.

Late Registration Fee of $25. Required of students completing registration after the official registration deadline.

Late Payment Fee of $5. Charged for overdue payments required during the semester.

Transient Lodging Fee of $4 double occupancy, $5 single. Charged for overnight guests.

Transient Meals Fee. Breakfast, 75¢. Lunch, $1.00. Dinner, $1.50.

Additional Housing Fee of $2 per week. Required when one person is permitted to occupy a double room. (This privilege is given only in summer sessions.)

Auditing Fee. Students auditing a course are charged the part-time basic fee of $33 per semester hour if they are residents of Pennsylvania, or $60 per semester hour if out-of-state students.

Dishonored Check Fee of $10. Applies to stopped payment checks and checks drawn for insufficient funds. The Late Registration Fee of $25 also applies as mentioned above.

WITHDRAWAL PROCEDURE

Students who wish to withdraw from the college after paying their semester fees must follow the official withdrawal procedure. This procedure begins in the Office of the Registrar, Room G-40, Learning Research Center.

POLICIES ON REPAYMENTS AND REFUNDS

All refunds must be made during the semester that refund concerns. Initiate refund requests immediately by contacting the Office of the Registrar, or the Student Accounts Office, 2nd floor, Philips Memorial Building.

Basic Fee Refunds:

1st through 2nd week: Full-time students who withdraw completely forfeit $75.00. Part-time students who withdraw completely and students who drop courses are eligible for 80% refund.
3rd week: All students—70% of basic fee refundable.
4th week: All students—60% of basic fee refundable.
5th week: All students—50% of basic fee refundable.
After 5th week: No refund on basic fee.

The Community Center Fee is non-refundable.

Housing Refunds:

The $50.00 room deposits are not refundable. If a student registers as a resident student and changes to commuter status before the end of the 6th week of classes, he will be eligible for one-half refund of his room rent. After the end of the 6th week of classes there is no refund on room rent.

Meal Refunds:

The fee for meals may be refunded on a weekly prorated basis. Contact Student Accounts Office, 2nd floor, Philips Memorial Building for procedure.

In cases of personal illness, certified by an attending physician, or for other reasons which may be approved by the Board of Trustees, the college will refund the portion of the housing and basic fees covering the number of weeks remaining.

Repayments of the application fee or acceptance fee will not be made under any circumstances.

Repayments will not be made to students who are temporarily or indefinitely suspended.

PLEASE REFER TO SUMMER UNDERGRADUATE CATALOG FOR SUMMER SESSION FEES AND POLICIES.

BILLING ADDRESS CHANGES

If a student billing address changes during enrollment at the college, the new address must be given to the Student Accounts Office, 2nd Floor, Philips, and to the Office of the Registrar *in writing.* This will avoid delayed delivery of registration materials and grades.

A change in domicile from out-of-state to Pennsylvania requires a notarized affidavit. For information on this procedure, contact the Student Accounts Office, 436-2552.

DELINQUENT ACCOUNTS

No student will be enrolled, graduated, or given a transcript of his record until all charges due at the particular time are paid.

ADDITIONAL COSTS

INTRACOLLEGIATE GOVERNMENTAL ASSOCIATION FEE

Student Government Fee. $34 per semester is collected from all full time students, and $10 per semester from all undergraduate part-time students. This fee is administered through a cooperative organization under regulations approved by the Board of Trustees. It covers the cost of the extra- and co-curricular programs in such areas as athletics, various musical organizations, lectures, entertainment, and student publications.

The IGA fee must be paid promptly upon receipt of the bill, which covers the semester. Checks should be drawn to IGA and mailed with registration materials.

BOOKS

Students buy their own books, available from the College Bookstore. The cost varies, depending upon the curriculum.

IDENTIFICATION CARDS

All students—both part-time and full-time—must secure an identification (ID) card from IGA at a cost of $1, either during Orientation or at the beginning of a semester. The charge for replacement of a lost card is $2.

LIBRARY CARDS

The student ID card serves as a library card.

COMMUTER/RESIDENT DUES

All full-time students are assessed either Commuter Government or Resident dues of $1 per semester. These dues are collected with the IGA Student Activities Fee.

GRADUATION FEE

A graduation fee is required of all degree candidates. No degree will be granted until this fee is paid. The bill is presented when the student files Notice of Intention to Graduate. It must be paid to IGA by check or money order drawn to: Commencement Fund.

GYMNASIUM UNIFORMS

Men students in the B.S. in Health and Physical Education degree program are required to buy athletic and gym outfits in their first semester and again in their third semester.

Women Students in the B.S. in Health and Physical Education degree program must buy uniforms for their first semester. Order forms are sent to each applicant upon her acceptance by the college. A slight additional expenditure is required of all sophomores.

All other students are required to purchase a regulation gym outfit. For the women students this is a one-piece suit available at the College Bookstore. For men the outfit includes a pair of white shorts, a white T-shirt, white socks, and canvas gym shoes.

SWIM-SUITS

Men and women students are required to have a regulation nylon tank suit, available at the College Bookstore.

SPECIAL COSTS FOR NURSES

At the end of their sophomore year, students in the B.S. in Nursing program must purchase uniforms. Throughout enrollment, students in this program must carry liability insurance.

Financial Aid

The purpose of the West Chester State College financial aid program, which is administered under the director of financial aid to students, is to provide monetary assistance to students who can benefit from further education, but who cannot do so without such assistance. West Chester State College administers a comprehensive program of scholarships, grants, loans, and student employment which enables many students with limited funds to meet their college costs.

Each applicant for financial aid must:

1. Be accepted for admission to West Chester State College.
2. Submit an application for financial aid to the director of Financial Aid, Room 103, Lawrence Center, West Chester State College. The necessary forms will be included with the admissions materials sent to a student after he or she has been formally accepted at West Chester.
3. Submit a Parents' Confidential Statement (PCS) by May 1 to the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540. The "PCS" form may be obtained from high school guidance offices, the College Scholarship Service, or the director of Financial Aid at West Chester State College.

Please note that submission of the above forms does not automatically entitle a student to receive financial aid.

Unless otherwise specified, requests for scholarships, loans and employment opportunities described herein should be made to the Director of Financial Aid, West Chester State College.

GRANTS, SCHOLARSHIPS, AWARDS, AND LOANS

FEDERAL GRANTS

BASIC EDUCATIONAL OPPORTUNITY GRANT PROGRAMS (Basic Grants). A federal program which makes funds available to eligible students attending approved colleges and other post-high school educational institutions.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG) PROGRAM. A federal program for students of *exceptional financial need* who, without the grant, would be unable to continue their education.

STATE GRANTS

STATE HIGHER EDUCATION GRANTS TO VETERANS. The Commonwealth of Pennsylvania has enacted legislation to provide State Higher Education Grants (formerly called state scholarships) for qualified veterans who need financial assistance to complete approved programs of post-secondary education. All veterans will be considered for State Grant assistance without regard to the financial data of their parents or guardians. Qualified veterans are eligible for a grant equal to the cost of their tuition and fees not to exceed a maximum grant of $1,200 at a Pennsylvania school or $800 at a non-Pennsylvania school.

THE STATE HIGHER EDUCATION GRANT PROGRAM. The State Higher Education Grant Program is designed to aid residents of Pennsylvania who are in need of assistance to attend the higher education institution of their choice. Grants vary in amounts depending upon family size and financial resources and upon educational costs at the school where the student is, or plans to be, enrolled. Awards are limited to the cost of tuition and fees but may not exceed $1,200 at approved institutions of higher learning in Pennsylvania or $600 at those located outside Pennsylvania.

LAW ENFORCEMENT EDUCATION PROGRAM GRANTS

Grants not to exceed $400 per semester are available to students who are eligible personnel of publicly funded law enforcement agencies of federal, county, municipal, and state government enrolled in or accepted for enrollment on a full time or part-time basis in the "Criminal Justice Program" and who agree to remain in full-time criminal justice employment.

SCHOLARSHIPS AND AWARDS

JAMES B. BONDER MEMORIAL SCHOLARSHIP. An annual award to a deserving football squad member by Mrs. James B. Bonder, alumni, and friends, in memory of Dr. Bonder, former football coach and faculty member, who died in 1965.

LAURY SAMUEL BROKENSHIRE SCHOLARSHIP. This $100 scholarship is presented annually as a memorial to Laury Brokenshire, '59, by his parents, Mr. and Mrs. James R. Brokenshire, of Reading. It is awarded to an outstanding junior class music student selected by the School of Music faculty.

CHEMISTRY DEPARTMENT SCHOLARSHIP. A $500 award available to a full-time student majoring in chemistry. Applications are made to the Department of Chemistry.

DR. ROBERT E. DRAYER MEMORIAL AWARD. An annual award for the senior who graduates with the most distinguished record in history, in memory of Dr. Robert E. Drayer, assistant professor of history, who died in 1968. The Department of History selects the recipient.

ARTHUR E. JONES MEMORIAL SCHOLARSHIP. Talent in the vocal-choral area and scholarship are among considerations for an annual award to a music student in remembrance of Dr. Arthur E. Jones, former chairman of choral music. To be eligible, a student must be a junior who has completed a course in choral conducting. The Department of Vocal and Choral Music selects the recipient.

WALKER HAMILTON, JR. MEMORIAL SCHOLARSHIP. As a memorial to Walker Hamilton, Jr., an associate professor of English who died in 1968, the Department of English annually makes an award to an academically superior English major. The recipient must have completed three years at West Chester.

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION SCHOLARSHIP. Three $125 scholarships, awarded to sophomore students in health and physical education.

LEWIS H. MARSHALL AWARD. An annual award to a senior in the School of Social and Behavioral Sciences whose leadership, professional promise, and academic achievement are outstanding. It is made available by the Chester County Association of Township Officials, and the awardee is selected by a committee of faculty from the School of Social and Behavioral Sciences.

S. POWELL MIDDLETON MEMORIAL SCHOLARSHIP. An annual award to a freshman music student for talent and achievement on an orchestra instrument. The award honors the former conductor of the College Symphony Orchestra who died in 1970.

ROBERT M. MITTEN SCHOLARSHIP FOUNDATION. An annual $500 scholarship for a major in health and physical education, given in memory of Dr. Mitten, former professor of health and physical education and the college football coach, who died in 1972.

CLIFTON E. MORGAN MEMORIAL AWARD. Presented annually to a West Chester student as a memorial to a member of the Department of History, who died in 1974.

MICHAEL MOROCHKO MEMORIAL PIANO AWARD. The Department of Keyboard Music presents a $200 scholarship annually to an outstanding junior music student majoring in piano as a memorial to Michael Morochko, father of a former student.

MUSIC SOPHOMORE SCHOLARSHIP. Three $100 scholarships, given annually to School of Music sophomores. College citizenship and musical performance are criteria.

NURSING SCHOLARSHIP PROGRAM. Scholarships not to exceed $2000 per academic year are available to assist students of exceptional financial need. These scholarships are for full time or half-time study in the Bachelor of Science Degree Program in Nursing.

HILLARY H. PARRY MEMORIAL SCHOLARSHIP. An annual award to a junior music student, granted for scholarship, citizenship, and achievement in vocal study. The scholarship is in remembrance of a former teacher of voice.

WILLIAM PYLE PHILIPS SCHOLARSHIPS. Awarded annually to juniors and seniors who are natives of Chester County, on the basis of demonstrated scholastic ability. Funds are available for approximately 20 scholarships of $400 each. The funds are divided equally between juniors and seniors. Application forms may be secured in the Office of the Registrar.

THEODORE PRESSER FOUNDATION SCHOLARSHIP. Two $200 scholarships, made available by the Presser Foundation's Board of Trustees, are awarded each year to juniors or seniors in music education. The School of Music faculty makes the selections.

DAVID M. SENSENIG MEMORIAL SCHOLARSHIP. $50 savings bonds given annually to two juniors with outstanding ability in mathematics. Dr. Sensenig was chairman of the Department of Mathematics from 1895 to 1908.

DR. AHMAD H. SHAMSEDDINE MEMORIAL AWARD. An annual award for an outstanding student in the field of business and economics, in memory of Dr. Ahmad H. Shamseddine, associate professor of economics, who died in 1971. The Department of Business and Economics selects the recipient.

SICO SCHOLARSHIPS. $2600 scholarships, in limited number, provided by the SICO Company of Pennsylvania to students from specified localities entering West Chester in the field of elementary or secondary education. Applications from high school seniors must be filed before March 1 through their guidance counselors. The stipulated areas of legal residence are: Chester, Adams, Berks, Cumberland, Dauphin, Delaware, Lancaster, Lebanon, and York Counties in Pennsylvania; Kent, New Castle, and Sussex Counties in Delaware; and Cecil County, Maryland.

GREG SMITH MEMORIAL SCHOLARSHIP. An annual scholarship of $100 presented by the baseball club in memory of a former baseball captain and president of the baseball club.

THE CHARLES S. SWOPE SCHOLARSHIP FOUNDATION. A Memorial Scholarship Trust Foundation established by the Swope family in memory of Dr. Charles S. Swope, who served as president of West Chester State College for a quarter of a century. In order to apply for the scholarship "the student must be enrolled in the junior year and have a desire to engage in the teaching profession." Application for the scholarship, which is awarded in the amount of $600 each, must be filed with the Trustee Committee on or before April 15 of each year. The selection is made by the committee during May, and scholarships commence in September. The number of scholarships which the Swope Foundation makes possible annually is in the range of fifteen.

LOANS

NATIONAL DIRECT STUDENT LOAN PROGRAM. Under this program students can obtain long-term, low-interest loans. The program includes loan cancellation provisions designed to attract superior students to the teaching profession at all academic levels. Approval of loans depends upon the student's need for financial assistance and the availability of funds. Preference is given to students from low-income families.

PENNSYLVANIA HIGHER EDUCATION ASSISTANCE AGENCY LOAN GUARANTY PROGRAM. Under the Pennsylvania Higher Education Assistance Act of 1963, as amended, qualified Pennsylvania residents can obtain long-term, low-interest educational loans, made by private lending institutions who are guaranteed repayment by the Pennsylvania Higher Education Assistance Agency.

WEST CHESTER STATE COLLEGE STUDENT EMERGENCY LOAN FUND. Students doing satisfactory academic work and needing funds to continue in the college may obtain short-term loans up to $100 from this fund. The loans must be repaid before graduation or prior to registration for the next academic year.

ALUMNI STUDENT EMERGENCY LOAN FUND. The West Chester State College Alumni Association maintains a fund from which students in financial need may obtain loans. No interest is charged, although legal security is required. Applicants must have a satisfactory academic record. The loans must be used for college expenses and be repaid before graduation or prior to registration for the next academic year.

NURSING STUDENT LOAN PROGRAM. Loans not to exceed $2500 per academic year are available to students for full time or half-time study in the Bachelor of Science Degree Program in Nursing.

COLLEGE WORK-STUDY PROGRAM

The College Work-Study Program is designed to expand part-time employment opportunities for students, particularly those from low-income families, who are in need of earnings from part-time employment to pursue their course of study. Students are employed for an average of 15 hours weekly during the academic year and a maximum of 40 hours weekly during summer or vacations. In general, the hourly wage is at least equal to the current federal minimum wage.

COUNSELING SERVICES FOR SENIORS SEEKING GRADUATE ASSISTANTSHIPS OR FELLOWSHIPS

Seniors planning to pursue graduate study at other colleges or universities may obtain information about scholarships, fellowships or assistantships from the director of the Counseling Center or the library. Conferences with department chairpeople or faculty advisors are recommended.

Student Affairs

It is a conviction at West Chester that education is both an academic and a social process, and that the student community is not merely a housing adjunct but an intrinsic part of the college experience.

The administration holds that students should share the responsibility in governing this community and should have a voice in shaping and re-examining the objectives of the college.

West Chester students have a democratically constructed governing body for maintaining a mature and responsible student citizenry and for developing the various activities and programs which best serve their interests and needs. Through advisory and committee machinery, the administration, the faculty, and the student body seek to work together in behalf of the general welfare of the college.

CLASSIFICATION OF STUDENTS

Although most of West Chester's undergraduates live on the campus, many commute to the College. For administrative purposes, the college classifies its students as:

(1) RESIDENT STUDENTS
These students live in residence halls owned by the General State Authority and operated by the college. Resident students are required to take meals in the dining hall.

(2) COMMUTING STUDENTS
This classification covers students who travel or commute to and from their legal residence as well as students who live away from the homes of their parents or legal guardians but not in a house supervised by the college or subject to college rules and regulations.

HOUSING

The residence halls on the campus provide accommodations for approximately 3,100 students. Students cannot be guaranteed housing for their full four years.

Room Assignments. The Office of Student Development makes the room assignments for all students living in the residence halls. Student rooms have basic furnishings for comfortable living and the students may make them more homelike with their own accessory additions. During Orientation, students are informed about the services and equipment furnished by the college and those necessities which the student must supply for himself. Lounge and recreation areas, storage rooms, television, and a variety of other facilities add convenience and a pleasant setting for student life.

Freshman Students. All freshmen—both men and women—who have been accepted as resident students have the opportunity to live in the college residence halls.

Transfer Students. For administrative purposes, transfer students are admitted as *commuting students*. Transfer students who desire accommodations in residence halls may apply in the Housing Office to be placed on the waiting list. Priority is based on the date the name is placed on the waiting list.

Married Students. The college has no housing facilities for married students. Prior to registration, they will need to secure their accommodations. Area realtors and newspapers should be consulted.

Overnight Guests. If accommodations are available, a resident student may have an overnight guest on Fridays or Saturdays at a minimal charge. Prior approval and registration must be secured from the resident director.

Policy for Withdrawals. Resident students must vacate their residence hall within 24 hours of completing the withdrawal from in the Office of the Registrar.

DINING ACCOMMODATIONS

Dining accommodations are provided in Lawrence Center where all resident students take their meals. Commuting students may eat meals in the college dining room on a semester basis or may obtain meals at the transient rates. Three meals are served, cafeteria style, every day of the week. Menus are carefully planned to meet the nutritional needs of active students.

The dining hall staff is not equipped to meet the special needs of students whose health requires medically regulated diets. Special problems should be taken to the coordinator of food services at least two weeks in advance of each semester.

Students who do not have a semester contract for meals may not eat in the dining hall unless they pay the transient fee for an individual meal. If this regulation is violated, the student will be held responsible for payment of the full semester charge for meals in the dining hall.

NEW STUDENT ORIENTATION PROGRAM

The Orientation Program, with its human relations experience, is a required program for all new freshmen and transfer students. Freshmen attend a three-day session during the summer while transfer students attend a two-day session.

Students receive one academic credit for their participation in the human relations experience of Orientation.

The Orientation Program helps introduce students to the campus and helps students develop certain basic competencies in human relations.

Freshmen will schedule for classes and take required placement tests during Orientation.

Within limits of early response and available space, new students may schedule for the most convenient of several Orientation sessions. Advance notice of the program is sent to all incoming students. Please refer any questions to the Director of Orientation, 206 Sykes College Union Building.

COLLEGE HEALTH SERVICE

To meet emergency and first-aid needs, and to perform routine infirmary treatment of minor illnesses and minor surgical conditions, two part-time physicians and five registered nurses are available at no cost to the students. A four-bed ward is available for short-term observation or treatment at the discretion of the college physicians. The Health Service is in Reynolds Hall where, for emergencies, a nurse is on duty on a 24-hour basis except from midnight Saturday to 8:00 a.m. Sunday while college is in session. Beyond these services, the college does not furnish medical care nor bear the costs of medical or surgical treatment or hospitalization. The community of West Chester has qualified physicians and excellent hospital facilities.

INSURANCE PROGRAM

In order to ease the financial burden which could result from extended illness or serious injury, a voluntary student insurance program, approved by the college, is available to all full-time students. The college *requires* all students in health and physical education, all students participating in the intercollegiate athletic program, and all students who are members of a club of an athletic nature to purchase the minimum coverage or show proof of comparable coverage.

Information about the insurance program is mailed to students prior to registration or may be obtained from the College Health Service.

Liability Insurance Requirement for Students in Nursing. See Department of Nursing.

STUDENT PHYSICAL EXAMINATIONS

In addition to the physical examination required for entering students, a completed physical examination form must be submitted annually to the College Health Service by all students participating in the intercollegiate athletic program.

A current physical examination including a report of a negative tuberculin test or chest X-ray showing no active tuberculosis is mandated by the Pennsylvania Department of Education for all senior student teachers and all junior or sophomore students participating in a field experience in the public schools.

The College Health Service reserves the right to request an annual physical examination by the family physician for any student suffering from a chronic illness. The college may deny admission to, or later dismiss, any student whose health would be detrimental to other college students.

The physical examination form is available at the college infirmary.

Physical Examination Requirement for Students in Nursing. See Department of Nursing.

VEHICLE REGULATIONS

All students may operate motor vehicles at the college. Students who intend to park motor vehicles on official student parking lots must register their vehicles with the Department of Law Enforcement and obtain an authenticated decal, under college motor vehicle regulations.

CAMPUS POST OFFICE

The college has an on-campus post office, located on the second floor of Lawrence Center. Commuting students may receive their mail here through combination-lock mail boxes. Mail boxes are assigned to them on request. Residence hall students receive their mail at their dormitories. To insure prompt delivery, mail sent to resident students should show the student's name, room number, the name of the residence hall, and West Chester, Pa., 19380.

COLLEGE POLICY FOR STORM CLOSINGS

When storm conditions affect the operation of the college, announcements are made over local radio and TV stations via a system of code numbers keyed to affected schools with prefixes indicating whether the school will be closed or open later than usual. West Chester's numbers and applicable prefixes are:

853 Day Classes
2853 Evening Classes
No prefix—Classes are cancelled for the day.
Prefix 5—School will open 1 hour late.
Prefix 6—School will open 2 hours late.

COLLEGE BOOKSTORE

Operated by the Intracollegiate Governmental Association, the College Bookstore is located on the ground floor of the Sykes College Union Building. In addition to required textbooks, the bookstore carries a full line of school supplies, health and beauty aids, supplementary reading material, physical education uniforms, records, gift items and the many other "necessities" of student life. Purchases may be charged to students or their parents subject tc certain qualifications. Details are available at the IGA Business Office where application for credit may be made. All profits derived from the bookstore benefit the student body through the IGA.

SYKES COLLEGE UNION

This multi-purpose facility supplements, under one roof, the many other lounge, recreation, and dining facilities scattered about the campus. Among its many areas here are several attractively furnished lounges; a recreation-game room; the IGA business office and ticket sales center; College Bookstore; a snack bar; offices for the vice-president for student affairs and others involved in student activities; a large multi-purpose room; West Chester's student newspaper, The Quad; and the college radio station, WCUR.

SPEECH AND HEARING CLINIC

The services of the Speech and Hearing Clinic, located on the second floor of Wayne Hall, are available to students. The clinic, which the Department of Speech Pathology and Audiology maintains as a teaching-training facility, provides diagnostic and therapeutic services for persons with speech and hearing problems. Others who may use the services of the clinic are the college community and residents of West Chester and the surrounding area.

COUNSELING CENTER

Staffed by psychologists trained to work with college students, the Counseling Center offers professional counseling and psychological services to students with educational, vocational, personal, social, and emotional problems and concerns. Counseling is offered on an individual and small group basis, its nature varying with the needs of each student. All interviews and test results are *strictly confidential.*

The types of services available include educational and vocational counseling, personal counseling, testing services and consultive services. These are available to all West Chester State College students at no charge. Appointments may be made by calling 436-2301 or in person in Room 129, Lawrence Center. Every attempt is made to see students within the same day.

PLACEMENT AND CAREER SERVICES

The professional staff of the Career Development Center work directly with students throughout their years in college assisting in defining career goals, relating academic preparation to these goals, and, eventually, helping in the search for fulfilling occupations. These services are available throughout the entire calendar year in Lawrence Center, second floor. A career information section is kept current for browsing and research while the Graduate Office provides college catalogs and other reference materials for students considering graduate school. Other activities of the Career Development Center include career days, seminars and on-campus interviews with potential employers.

SCHEDULING OF COLLEGE EVENTS

All college functions and special events should be registered in advance with the director of cultural affairs and college events, Sykes College Union in order that they will have facilities and the necessary supportive services.

THE INTRACOLLEGIATE GOVERNMENTAL ASSOCIATION

All students, upon payment of their student government fee, are members of the Intracollegiate Governmental Association, which is the student governing body concerning itself with the welfare of all students. Under its constitution, the IGA provides students with experiences in the processes of democratic government.

The elected General Assembly is the IGA's legislative body, the IGA program is administered through its officers and a student committee system. In fiscal matters, in various policy-making areas, and in disciplinary action, final authority rests with the president of the college and the Board of Trustees.

Under guidance from the vice-president for student affairs, the IGA maintains the College Bookstore, publishes the student newspaper, operates the college radio station, conducts ticket sales for college events, and plans and conducts many all-campus special events and programs.

RESIDENCE HALL ASSOCIATION

The purpose of the Residence Hall Association is to provide for the social, cultural, and educational life of resident students. It purchases and maintains recreational equipment, provides social events, and gives the student development staff information regarding visitation hours, living conditions, and regulations in the residence halls. Its varied activities stem from representation and participation within the residence halls. Each hall has a representative from every floor and a slate of dormitory officers. The officers from every residence hall represent their respective halls in the Residence Hall Association General Assembly.

OFF-CAMPUS STUDENT ASSOCIATION

The Off-Campus Student Association is the official campus governmental organization representing all commuting students. The association acts on behalf of its members in the areas of political and social life and services to the commuter on campus.

STUDENT STANDARDS

West Chester State College assumes that its students are mature persons who are attending an institution of higher learning for serious purposes. Therefore the college believes that students should accept responsibility for their personal behavior. In situations that deviate from these ideals, West Chester State College's Judiciary System is designed to hear complaints against individual students and groups of students whose behavior or activities are variously labeled unacceptable, destructive, irresponsible, disorderly, or in violation of existing standards of conduct and regulations.

In encouraging the development of responsible student conduct, the college employs counseling, guidance, admonition, and example, as well as disciplinary proceedings. Students found in violation of the college's rules and regulations may be subject to disciplinary action, which could include suspension.

ORGANIZATIONS AND ACTIVITIES

West Chester has an extensive program of extra- and co-curricular activities under the direction of the vice-president for student affairs, who works directly with the officers and committees of the IGA in coordinating the program seeing that it reflects and fulfills student needs. Many of the activities are described in the following pages with additional details provided in the student handbook, "Ram's Eye View."

CULTURAL AFFAIRS/COLLEGE EVENTS

The Cultural Affairs Program at West Chester exceeds most college programs by far in both quality and quantity. Supported by the large and respected School of Music and supplemented by an interested community, the cultural-affairs events always draw large and enthusiastic audiences.

THE ALL-STAR SERIES. Each year this provides students at West Chester the opportunity to see and hear noted artists from around the world. For instance, recent performances included the Vienna Choir Boys, Andre Watts, Roberta Peters, and Van Cliburn.

THE ALL-STAR CHAMBER MUSIC SERIES. Numerous well-known chamber groups have come to the West Chester campus under this program including the Guarneri, Curtis and Warsaw String Quartets; the Mozarteum Woodwind Quintet; and the American Brass Quintet.

WILLIAM PYLE PHILIPS and COLLEGE UNION ACTIVITIES BOARD LECTURE SERIES. These bring varied prominent individuals from the worlds of the arts, politics and science

Additional college events popular with the student body include the College Union Program Board Series, School of Music concerts and recitals, monthly exhibits at the Francis Harvey Green Library,. art exhibits in Mitchell Hall, the English Colloquium, the college's Theatre Dance Group annual performance and Little Theatre Productions in the Studio Theatre and Turk's Head Playhouse.

The two All-Star Series and the Philips Lecture Series are under the direction of the director of cultural affairs and college events while the two College Union Program Board series and the films series are arranged by the director of the college union.

MUSICAL ORGANIZATIONS

In conjunction with the regularly scheduled student and faculty recitals, the college maintains the following well-developed musical organizations which contribute to the wealth of fine music on the campus:

THREE COLLEGE BANDS. The Symphonic Band, Concert Band, and Marching Band. Membership is determined by the student's qualifications regardless of curriculum.

COLLEGE STRING ORCHESTRA. Membership in this organization is open to all qualified students.

WIND ENSEMBLE. A band of 50 to 60 outstanding campus wind instrumentalists and percussionists. The ensemble performs difficult music. Emphasis is on contemporary works.

SYMPHONY ORCHESTRA. Membership is determined by the student's qualifications.

INSTRUMENTAL ENSEMBLES AND CHAMBER MUSIC GROUPS. Membership in these groups is determined by the student's qualifications.

THE CRITERIONS. The college jazz lab band. Members are selected by audition.

CONCERT CHOIR. A mixed choir of music students selected by audition. This choir of about 40 voices meets twice a week, devoting its efforts toward acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

CHAMBER CHOIR. Performance of music of the Renaissance and baroque periods. The choir is selected by audition.

CHOIR. A mixed choir of junior and senior music students. This group meets twice a week, devoting its efforts toward a wide association with choral literature. It is used as an opera chorus in School of Music productions and joins with the Concert Choir for large performances.

WOMEN'S CHORUS. All freshman and sophomore women not in the Concert Choir who are enrolled in music education are required to take this course, devoting their efforts primarily toward acquiring the techniques of choral singing.

MEN'S CHORUS. All freshman and sophomore men in music education who are not enrolled in the Concert Choir are required to take this course. Men from all other curricula are invited to audition for this group.

MIXED CHORUS. A mixed chorus of freshman and sophomore music education students which meets once a week, alternating as a mixed chorus and as Men's Chorus and Women's Chorus. It combines with the Concert Choir for performances.

MUSICA ANTIQUA. Open to all students, the weekly meetings are for the pleasure of learning to sing and play early music, using reproductions of ancient instruments. Public performances are presented.

OPERA CHORUS. An elective course devoted to the training of a choral group which participates in opera and operetta production. Membership is by audition.

WOMEN'S GLEE CLUB. This organization provides an opportunity for non-music women students to participate in a choral group. The activities include the annual Christmas Carol Program and the Women's Glee Club spring concert. Membership is by individual audition.

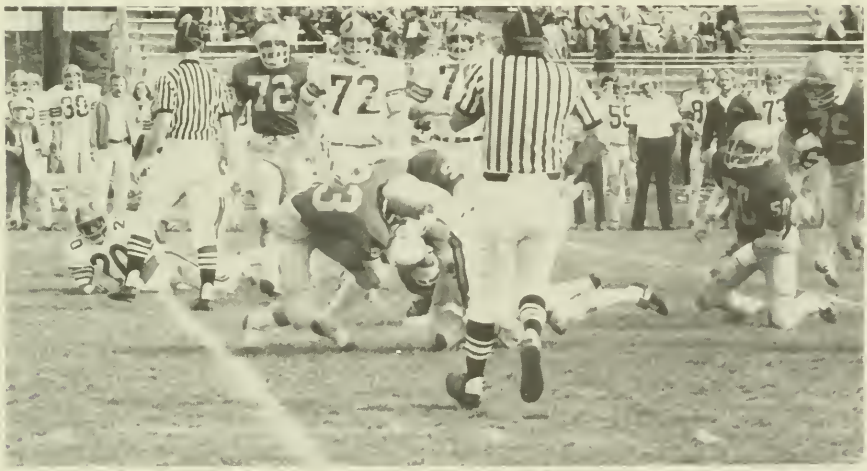
SPORTS, ATHLETICS, RECREATION

Sports and recreational activities are popular elements of student life at West Chester, thanks in large part to the outstanding resources of the School of Health, Physical Education, and Recreation.

The college's intramural and intercollegiate athletic programs, which are described under the School of Health, Physical Education, and Recreation, are open to all students.

Beyond organized athletic programs, informal sports and recreational activities of almost every conceivable variety are available. The range is from court games, field games, and swimming to hiking, ice skating, canoeing, bicycling, skiing, and camping. The office of Recreational Services, established in 1972, encourages increased participation in these leisure-time activities throughout the entire college community.

More details on the full athletic and recreational programs at West Chester are given under the School of Health, Physical Education, and Recreation in the Recreational Services Handbook.



FORENSICS AND THEATRE

FORENSICS. The college has a strong program in intramural and intercollegiate forensics. Its Forensic Society is the focal point for training in competition in debate, oratory, extemporaneous speaking, after-dinner speaking, parliamentary discussion, interpretive reading and other events.

LITTLE THEATRE. Excellent opportunities for experience in theatre are offered through this student organization, which functions in the Studio Theatre and Turk's Head Playhouse. Its major productions, drawn both from the classics and from contemporary drama, are outstanding events for the college and the community as well. All students with an interest in drama are welcome.

WEST CHESTER COLLEGE MUSICAL THEATRE COMPANY. Students with an interest in joining other students in the production of Broadway musical fare may enjoy what this group has to offer. Productions are mounted, directed, designed, and performed by students. Musical Theatre Company welcomes all students.

PUBLICATIONS AND RADIO

THE QUAD. This student newspaper is published by the Intracollegiate Governmental Association with a faculty member as advisor. All interested students are invited to seek positions on the Quad which offer training and experience in many areas of journalism.

THE SERPENTINE. This yearbook provides a pictorial and written record of the year's activities at the college. It is edited by a student staff, with a faculty advisor.

COLLEGE LITERATURE. A thrice-yearly journal of scholarly articles on frequently taught literary works.

RAM'S EYE VIEW (THE STUDENT HANDBOOK). Detailed information concerning student life is provided by this annual, student-edited publication. It is particularly valuable to the incoming student.

STATION WCUR. Sponsored by the Intracollegiate Governmental Association, WCUR serves the college with news, music, and special interviews and programs. The station, operated entirely by students, offers experience in all phases of radio communication.

RELIGIOUS ORGANIZATIONS AND PLACES OF WORSHIP

Opportunities for fellowship and religious experience are offered by the following groups:

Campus Crusade for Christ
Hillel Club
Newman Student Association
Christian Science Organization
Fellowship of Christian Athletes
Lutheran Student Association

The Ecumenical Campus Ministry Board, Inc., is an interdenominational ministry which works with students and the campus community in pertinent religious areas, both personal and social. Through its ministers and its executive director, various programs, including interfaith experiences, are provided.

Students are always welcome at the many places of worship in and near the Borough of West Chester.

BLACK STUDENT UNION

The Black Student Union, which was formed in 1971, is dedicated to the creation of a relevant atmosphere for black students at West Chester. Union membership is open to all West Chester students, faculty, and staff—regardless of race, color, or creed—who have a concern for the black cause.

A major purpose of the organization is to broaden and enhance the academic and social life for black students at the college. The Union's democratically structured constitution provides for a chairman and board of directors, consisting of two members from each class, elected by the membership. Applications for membership in the Union are reviewed by its board of directors. Applications for membership may be made at the Black Student Union offices, Recitation Hall.

HONOR SOCIETIES

ALPHA LAMBDA DELTA. The West Chester chapter of this national freshman scholarship society for women encourages superior scholastic attainment and scholarship development. A 3.5 average for the first semester or a 3.5 cumulative average for the first two semesters is required for membership.

ALPHA MU GAMMA. The Department of Foreign Languages sponsors a chapter of this national collegiate foreign-language honor society, devoted to promoting the study of foreign languages and encouraging cultural exchange with foreign students.

ALPHA PHI GAMMA. Delta Kappa chapter of this national honor society for men and women in journalism was established in 1968.

ALPHA PSI OMEGA. Rho Mu chapter of this coeducational dramatic fraternity was established in 1961. It is responsible for one major production presented each year in cooperation with Little Theatre, which sponsors Alpha Psi Omega.

GAMMA THETA UPSILON. Gamma Eta chapter of this professional geography fraternity was established in 1963. The organization promotes professional interest in geography.

KAPPA DELTA PI. The School of Education sponsors this society to encourage high professional standards in education. Membership is by invitation to education majors with high academic standing.

PI GAMMA MU. The School of Social and Behavioral Sciences sponsors Omega chapter for the purposes of improving scholarship in the social sciences and inspiring social service to mankind. Majors in the school with high academic accomplishments are invited into membership in their junior or senior year.

PI KAPPA DELTA. A chapter of this national honor society for students in competitive forensic activities was established in 1969 under School of Arts and Letters sponsorship. Pi Kappa Delta has its base in the Debate Society.

PI MU EPSILON. This national mathematics society is open to junior standing students who rank in the upper one-third of their class and have completed 18 hours of mathematics with a minimum average of 3.0.

PHI ALPHA THETA. Organized in 1968, Nu Sigma chapter of this international honor society in history is sponsored by the Department of History. Phi Alpha Theta is open to history majors in teacher education and liberal arts who have a minimum average of 3.01 in twelve or more semester credits in history.

PHI EPSILON KAPPA. The School of Health, Physical Education, and Recreation sponsors a chapter of this national professional fraternity for men majoring in health and physical education. Phi Epsilon Kappa seeks to advance the profession of health and physical education.

PHI MU ALPHA (SINFONIA FRATERNITY). Rho Sigma chapter of this professional fraternity for men majoring in music was formed at West Chester in 1967. The organization seeks to advance the cause of music in America and to further the welfare and brotherhood of students in music. Membership is by invitation. Members must be in at least their second semester.

PSI CHI. A chapter of this national honor society in psychology is sponsored by the Department of Psychology. Membership is by invitation, with scholarship and citizenship as criteria. Psi Chi, under the aegis of the American Psychological Association, endeavors to advance the service of psychology and encourages superior scholarship in psychology.

SIGMA ALPHA IOTA. Epsilon Epsilon chapter of this internationally incorporated professional fraternity for women in music was formed in 1968. The fraternity is dedicated to service in the field of music. Membership, by invitation, recognizes scholarship. Members must be in at least their second semester.

SERVICE FRATERNITIES AND ORGANIZATIONS

ALPHA PHI OMEGA. Omicron Upsilon chapter of this fraternity, which is dedicated to service and leadership development, is open to all men of the campus community. Omicron Upsilon chapter conducts many service-oriented activities.

THE FRIARS SOCIETY. The Friars Society, which has been established at West Chester for many years, is composed of sophomore, junior, and senior men invited into the organization in recognition of character and leadership. The society's various service projects concern the good of the college community.

SOCIAL FRATERNITIES AND SORORITIES

The college has a system of social fraternities and sororities, governed respectively by the Inter-fraternity Council and the Panhellenic Council, a chapter of the National Panhellenic conference. Since their introduction in 1967-1968, the social fraternities and sororities have become an integral part of campus life.

NATIONAL FRATERNITIES
Alpha Epsilon Pi
Alpha Phi Alpha
Lambda Chi Alpha
Omega Psi Phi
Sigma Pi
Sigma Tau Gamma
Tau Kappa Epsilon
Theta Chi
Pi Lambda Phi
Zeta Beta Tau

NATIONAL SORORITIES
Alpha Kappa Alpha
Alpha Phi
Alpha Sigma Tau
Alpha Xi Delta
Delta Sigma Theta
Delta Zeta
Zeta Tau Alpha

PROGRAM BOARD

A full program of extra-curricular activities is conducted by the Program Board throughout the academic year. These activities include film presentations, coffeehouse and cabaret entertainments, light cultural programs, pop concerts, special interest activities and a wealth of other social functions.

THE ALUMNI ASSOCIATION

Graduation doesn't necessarily mean termination of college activities for students as West Chester has a large and active Alumni Association. It has branch organizations in various Pennsylvania communities as well as out-of-state in New Jersey and California. Alumni Day is held annually at the college during Commencement Weekend, and the association publishes a quarterly magazine, *The Olden Ram*, to keep members informed of college concerns.

Academic Information

Under West Chester's advisory prog;am, all students have faculty advisors, appointed through their major departments, who counsel them on academic matters throughout their undergraduate years. Students, however, are responsible for seeing that they meet all graduation requirements.

CLASSIFICATION BY COLLEGE PROGRAM

Degree Candidate—all undergraduates admitted to a degree program.

Non-degree Student—special students admitted for course work toward certification, professional growth, or other purposes. This classification does not include students who have been accepted through the Admissions Office to the temporary Undeclared Major degree program.

ACADEMIC CLASSIFICATION OF STUDENTS

The student's class designation is determined by the number of semester hours or credit *earned*, thus:

Freshman	0-31 semester hours of credit (inclusive)
Sophomore	32-63 s.h. of credit (inclusive)
Junior	64-95 s.h. of credit (inclusive)
Senior	96 or more s.h. of credit

Note: In computing the cumulative index, the total number of credits *attempted* is considered. (See "Cumulative Index" below.)

STUDENT CLASS LOAD

A full-time class load ranges from 12 to 18 s.h. of credit.

STUDENT ABSENCE POLICY

The student absence policy is a graduated policy providing leniency to students (primarily juniors and seniors) enrolled in 300 and 400 courses, and certain restrictions to freshmen and sophomores in 100 and 200 courses. The privilege given to upperclassmen, regardless of course level, is based upon their demonstrated ability to assume responsibility.

The absence policy holds that satisfactory proficiency in course work is the student's responsibility, as is class attendance. Course grades should reflect satisfactory comprehension of the course materials, not the attendance record.

The policy is administered at the student-faculty level. Only when a faculty member reports a course drop does the college learn of a poor attendance record.

Absences from 300 and 400 courses have no specified restriction. For 100 and 200 courses, freshmen and sophomores are allowed a total of absences equal to three times the semester credits. On days of an announced quiz, test, or examination, *no absences are permitted at any course level.* Excess absences in 100 or 200 courses may cause a freshman or sophomore to be dropped from the course and to incur either a WP or WF. Before a drop is instituted, the instructor discusses the matter with his or her department chairperson and informs the student of the intention.

GRADE REPORTS

After each semester, a report of each student's semester grades is mailed to the student at the home address.

GRADING SYSTEM

Grade	*Interpretation*	*Percentage Equivalents*	*Quality Points*
A	Excellent	A—90-100	4
B	Superior	B—80-89	3
C	Average	C—70-79	2
D	Below Average	D—60-69	1
F	Failure	F—59 or lower	0
P	Passing		
I	Incomplete		
WF	Withdrew Failing	F—59 or lower	0
WP	Withdrew Passing		
AU	Audit		

I (Incomplete): given when a student fails to complete course requirements by the end of a semester for such valid reasons as serious illness or death in the family. Unless the work is satisfactorily completed within the first nine weeks of the next semester, the I becomes an F.

CUMULATIVE INDEX

The cumulative scholastic index (academic average) is determined by dividing the total quality points *earned* by the total credit hours *attempted.* The following example, based on a single semester, illustrates:

	Semester Hours	Grade	Quality Points for Grade		Quality Points for Course
1st subject	4	A	4	4 x 4 —	16
2nd subject	3	B	3	3 x 3 —	9
3rd subject	3	C	2	2 x 3 —	6
4th subject	3	D	1	1 x 3 —	3
5th subject	2	F	0	0 x 2 —	0
	— —				— —
	15				34

34 divided by 15 equals Scholastic Index 2.27

All grades received during a student's enrollment (except D's or F's when a second attempt produces a higher course grade) are included in the cumulative index. Grades from other colleges are excluded.

If a student repeats a course, in an effort to improve his D or F grade, he or she must notify the Office of the Registrar (formerly the Enrollment Center) at the beginning of the semester in which the course is being repeated.

PASS-FAIL POLICY

1. All sophomores, juniors, and seniors with a cumulative index of a. 2.00 are eligible.
2. The Pass-Fail privilege is limited to one course per registration; as rule, only a non-major elective may be taken on a Pass-Fail basis.
3. After contracting for Pass-Fail, the student may not request a letter grade.
4. A form for a Pass-Fail agreement may be obtained from the Office of the Registrar. It must be completed and returned no later than one week after the beginning of a semester or summer session.
5. A grade of Pass carries credit value but has no effect on the cumulative index.
6. A grade of Fail is computed into the cumulative index.

EXEMPTION FROM FINAL EXAMINATIONS

Subject to certain reservations, students may waive final examinations if they have attained an A or B prior to the finals, have completed all other course requirements, and have instructors' permission. The reservations are:

1. Any unit examinations given during the final examination period are not subject to this policy.
2. Academic departments as well as faculty may adopt a policy excluding the final examination exemption for certain courses.
3. Mutual agreement between the instructor and the student to waive the final examination should be determined during the week prior to the beginning of the examination period.

The course grade will be the A or B earned exclusive of a final examination grade.

ACADEMIC HONORS LIST

The academic Honors List of those students achieving a cumulative index of 3.50-4.00 is published at the close of each semester.

MAINTENANCE OF MINIMUM STANDARDS

A 2.00 (C) cumulative index is the minimum acceptable for academic work; students failing to maintain a 2.00 index are considered probationary students.

In order to remain in the college as degree candidates, students must attain the following cumulative indexes.

With 0 to 32 credits attempted or two full-time semesters completed	1.80
After 33 credits attempted or four full-time semesters completed	2.00

A minimum cumulative index of 2.00 (C) for all work taken at the college is required for senior standing and graduation.

If a student's cumulative index is below 1.00 (D) after attending two full-time semesters and the summer sessions, his attendance is terminated.

MINIMUM STANDARDS—TRANSFER STUDENTS

Transfer students are required to maintain the cumulative indexes shown above. The number of credits taken at West Chester is added to the number of credits transferred for the purpose of determining the credit hours attempted. For example, 34 credits transferred and 32 credits at the College equal 66 credits and require a minimum average of 2.00.

REPEATING COURSES

In a change of academic policy applying to students who were adm or readmitted after June 1, 1973, D or F grades are not computed in

index when a student repeats the course and attains a better grade. If the second attempt does not produce a grade higher than D or F, the grade will be computed into the index and remain there even if a third attempt is successful. Whatever the outcome of second and subsequent attempts, the original D or F will appear on the student's record.

Students must inform the Office of the Registrar that they are repeating a course, and must do so as the semester of the second or subsequent attempt begins.

For students admitted before June 1, 1973, the original D or F will be figured into the index.

Students readmitted after June 1, 1973, are eligible under the new D-F policy only for those courses in which they received a D or F after their readmission.

ADVANCED PLACEMENT PROGRAM

Courses taken under the Advanced Placement Program offered by the College Entrance Examination Board may be applied toward advanced placement in the college and/or toward credit requirements for graduation. The college recognizes the grade of 3.00 or above as acceptable.

INDEPENDENT STUDY AND CREDIT BY EXAMINATION

Enrolled students desiring approval for independent study or credit by examination must apply on forms available from the Office of the Registrar. The privilege of independent study or credit by examination is subject to:

1. Application within the first two weeks of a semester.
2. A cumulative index of at least 2.00 in the major area.
3. Evidence of a satisfactory academic background for the course.
4. Approval, written on the application form, from the dean or department chairperson concerned.
5. For part-time students only: payment of the basic fee for the course.

The grade received will be recorded on the student's permanent record and credited toward graduation requirements.

TRANSFER OF CREDIT

Advanced credit may be granted for equivalent courses completed in *accredited* institutions of collegiate grade.

Effective for students who entered the college after September 1973, D grades are accepted for transfer if the credit is for equivalent courses within the framework of general requirements or free electives, provided the transferred course does not satisfy a major field requirement as well.

D grades considered for transfer for a major program requirement are treated in the same manner as the major department treats D grades earned at West Chester, that is, the student's major department may require the course to be repeated.

If the student is required to repeat a course in which a D was obtained, the course originally considered for transfer will not be accepted for any type of credit. Likewise, if a student changes his major, D grades originally approved for transfer will be re-evaluated by the new major department.

AUDITING PRIVILEGES

Anyone may attend the college for the sole purpose of auditing one or more courses by obtaining approval from the Office of the Registrar and paying the regular fee. Full-time students have the privilege of auditing one course per semester without charge, provided they obtain approval from the course instructor. Part-time students may audit one course per

semester, provided they obtain the instructor's approval, enroll in the course through the Office of the Registrar, and pay the regular course fee.

Credit is never given to auditors, and audited courses do not appear on student records. After the course has commenced, the auditor status may not be changed.

POLICY ON CORRESPONDENCE COURSES

The college does not allow credit for courses taken through correspondence.

WITHDRAWAL FROM A COURSE

A. *During the first six weeks of a semester* a student may withdraw from a course, thereby receiving no grade.

B. *After the first six weeks of a semester* a withdrawal will not be approved except for special reasons and emergencies. The student secures a withdrawal form from the department involved, has it signed by the instructor and department chairperson, and returns it to the Office of the Registrar.

If a student is doing passing work at the time of approved withdrawal, he receives a WP, which is not treated as a grade. If he is failing, he receives a WF, computed as an F.

A student who drops a course without official permission is given an F.

WITHDRAWAL FROM THE COLLEGE

Students wishing to withdraw from the college are to go to the Office of the Registrar and follow the prescribed procedures. If illness or some other emergency interrupts the student's college work, he or she must notify the Office of the Registrar at once. Unless a student withdraws officially, F grades will be recorded for unfinished courses.

REINSTATEMENT AND READMISSION

A student whose cumulative index is below that required for retention may attend summer sessions at West Chester in order to improve the index. If the deficiency is corrected during the summer, the student is reinstated and continues degree candidacy. If, however, the required cumulative index is not attained by the close of summer sessions, candidacy is terminated. The student must remain away from West Chester for one full semester before taking part-time work in an effort to be readmitted.

All students must apply formally for readmission as full-time candidates; however, no application is necessary, other than proper registration, for part-time work taken to qualify.

Students are eligible for readmission if they qualify through part-time work taken after the first dismissal. A second academic dismissal terminates degree candidacy at West Chester.

ROOM RESERVATION POLICY FOR REINSTATED STUDENTS

Room reservations are not held for resident students who are in academic difficulty at the close of the spring semester. If students attend summer sessions and are reinstated for the following fall semester, they must reapply for housing.

REQUIREMENTS FOR GRADUATION

A student is recommended for graduation upon the satisfactory completion of a minimum of 128 semester hours and upon fulfillment of all categories of the requirements for his degree. A minimum cumulative index of 2.00 (C) is required for graduation. Degree requirements are detailed under the heading of the subject field. See also "Requirements for the Baccalaureate Degree" under the Programs of Study. A student must file for graduation at the beginning of the semester in which the student will complete the requirements.

RESIDENT CREDIT REQUIREMENT

To qualify for graduation, a student must take at least 30 semester hours of credit at West Chester.

REQUIRED NOTICE OF INTENTION TO GRADUATE

Students intending to graduate in May or August must come to the Office of the Registrar and give Notice of Intention to Graduate no later than February 1. Students intending to graduate in December must give such notice no later than October 1. The baccalaureate degree will not be granted unless this requirement is met.

After submitting this notice, the student will receive a cap-and-gown order form and a bill for the graduation fee. He or she will also specify how his or her name should be shown on the diploma and commencement program. Unless the deadline is met, it will be impossible for the college to order a diploma, place the name on the forthcoming commencement program, or have the transcript reflect the appropriate date of graduation.

GRADUATION HONORS

Graduation honors are awarded as follows:

	Cumulative Index
cum laude	3.25—3.49
magna cum laude	3.50—3.74
summa cum laude	3.75—4.00

The honors list for Commencement is necessarily calculated at the close of the seventh semester. Those who do not attain honors distinctions until the end of their final semester will have recognition of their achievement on their transcripts, where all honors distinctions are recorded.

To be eligible for honors distinctions, transfer students must have completed a minimum of 64 semester hours, or four full time semesters, at West Chester.

TRANSCRIPTS

Requests for official transcripts are made by writing to the Office of the Registrar, Learning and Research Center. West Chester graduates are not charged for their first transcript but pay $1 each for subsequent transcripts. Checks, payable to the Commonwealth of Pennsylvania, must accompany all but the first request. Transcripts are official only when sent directly from the issuing institution to the authority requiring them.

DIRECTORY INFORMATION

West Chester State College has, in the past, made public certain kinds of information about students, such as, the names of those who receive scholarships, who hold offices, or who are members of athletic teams. Various kinds of campus directories are published throughout the year to help

members of the college community locate and communicate with each other. The commencement programs publish the names of those who have received degrees during the year.

The Family Educational Rights and Privacy Act defines the term "directory information" to include the following categories of information: the student's name, addresses, telephone numbers, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The college will limit information which is made public to categories such as these but will not necessarily publish all such information in every listing.

Undergraduate students who *do not wish* to have any or all of such "directory information" published without their prior consent must file notice in the Office of the Registrar and graduate students in the Graduate Office. A signed, dated statement specifying items not to be published must be brought by the student to the appropriate office within the first fifteen calendar days after the beginning of the fall semester.

VETERANS' AFFAIRS

Under the provisions of Title 38, West Chester State College is an accredited college for the education of veterans. An Office of Veterans' Affairs is maintained in Old Demonstration. The college cooperates with the Veterans Administration to see that honorably separated or discharged veterans receive every consideration consistent with either degree or non-degree admission standards.

All veterans, certain dependents of disabled or deceased veterans, and war orphans who wish to obtain educational benefits under the appropriate public laws must register with the Office of Veterans' Affairs at college registrations. Veterans must renew their registration with this office at the beginning of each subsequent semester and each summer session. The Veterans Administration requires students who are veterans to schedule at least 12 s.h. per semester in order to receive full benefits under the G.I. bill.

A representative of the Veterans Administration is in the Veterans' Affairs Office part-time, counseling and acting as liaison between students and the Veterans' Affairs Office in financial and other matters.

The Veterans' Affairs Office also advises students on Selective Service matters.

ARMED SERVICES ROC PROGRAM

The college, with the approval of the Board of Trustees, permits West Chester students enrolled in the Armed Services Reserve Officer Candidate Program (ROC) to receive six semester hours of baccalaureate credit upon successful completion and certification of ROC military requirements. Such credits are classified as free elective transfer credits. Depending on the status of a student's program at the time of ROC credit transfer, these credits will be counted toward, or in excess of, the 128 credits required for a baccalaureate degree.

ROC programs are contingent upon successful completion of military requirements during vacation and the award of a college degree before being granted the service commission. The programs cover the Navy's Basic and Advanced Reserve Officer Candidate courses and the Marine Corps' Junior and Senior Platoon Leadership courses.

THE WOMEN'S CENTER

Located on the third floor of 628 High Street across from Philips Memorial Hall, the Women's Center provides a place for West Chester's non-traditional students, in particular older women, to meet and seek advice. The volunteers who staff the center work with the Admissions and Undergraduate Offices to help older students return to begin college and also assist them with their day-to-day problems.

INTERNSHIPS

A number of departments offer the opportunity for internships in which students may be employed in their field of interest receiving income, experience and college credits. Among the departments at West Chester with internship programs are American Studies, Business and Economics, Chemistry, Geography and Planning, Government and Politics, History, Psychology and Speech Communication and Theatre. Additional information is available under the various department listings and from the departments.

STUDENT TEACHING

Student teaching is to be taken in the seventh or eighth semester and normally culminates the professional experience in pre-service preparation for teaching. Students are required to file applications for student teaching one year prior to their student-teaching semester. Regular meetings for student-teaching registration are scheduled annually early in the spring semester. Prospective student teachers must attend one of these meetings.

Students must do their teaching in stations in school areas where the college holds a contract for student teachers.

To be eligible for student teaching, candidates must have senior standing (96 semester hours), a cumulative index of 2.00 (C) or higher, should have completed all course work required in at least the first six semesters, and should have satisfied competencies for the degree. Criteria for student teaching approval occasionally change. Students should contact departments for requirements.

NATIONAL TEACHER EXAMINATION

The college provides an annual opportunity for students to take the National Teacher Examination. Details may be secured from the Career Development Center.

TEACHING CERTIFICATES

Instructional I Certificate. A student who satisfactorily completes one of the college's teacher education curricula receives his degree from the college and qualifies for an Instructional I Certificate, which is issued to him by the Pennsylvania Department of Education.

In the elementary field, this certificate qualifies the holder to teach in Pennsylvania's elementary schools for three years.

In the secondary field, this certificate qualifies the holder to teach the specified subject in Pennsylvania's secondary schools for three years.

In health education, health and physical education, music education, foreign languages, and speech correction, the certificate qualifies the holder to teach the specified subject in the public schools of Pennsylvania for three years.

Instructional II Certificate. This certificate requires three years of successful teaching in the public schools of Pennsylvania under the Instructional

I Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed after issuance of the baccalaureate degree. This certificate is a permanent license to teach in Pennsylvania.

All or part of the educational requirements for this credential may be obtained through approved in-service programs.

EXTENSION OF TEACHING CERTIFICATES

1. A college certificate valid for a secondary field may be extended to include the elementary field by completing a program designed by the Department of Elementary Education.
2. A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing the college's field requirement for it and the related methods course.
3. A college certificate valid for a secondary field may be extended to include additional academic subjects by completing the college's field requirements for them.

STRUCTURE OF THE COLLEGE

West Chester State College is divided into six schools each under the direction of a Dean. The various departments of the college are distributed among the Schools as follows:

SCHOOL OF ARTS AND LETTERS

John P. Field
Acting Dean
Art
English
Foreign Languages
Philosophy
Speech Communication and Theatre
Speech Pathology and Audiology

SCHOOL OF EDUCATION

William F. White
Dean
Counselor Education
Elementary Education
Environmental (Outdoor) Education
Instructional Media Education
Reading
Secondary Education and Professional Studies
Special Education
Urban Education

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Edwin L. Youmans
Dean
Edwin B. Cottrell
Associate Dean
Health Education
Physical Education

SCHOOL OF MUSIC

Charles A. Sprenkle
Dean
Alexander Antonowich
Associate Dean
Music Theory and Composition
Music History and Literature
Music Education
Keyboard Music
Vocal and Choral Music
Instrumental Music

SCHOOL OF SCIENCES AND MATHEMATICS

Russell K. Rickert
Dean
Biology
Chemistry
Earth Sciences
Mathematical Sciences
Nursing
Physics

SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

James S. Milne
Acting Dean
Anthropology, Sociology and Social Welfare
Business and Economics
Criminal Justice
Geography and Planning
Government and Politics
History
Psychology

INTERDISCIPLINARY PROGRAMS AND OFFERINGS

Among West Chester interdisciplinary programs—drawing upon the resources of two or more of the College's schools—are two which lead to the Bachelor's degree and others which provide transcript recognition. They are

American Studies—Bachelor of Arts
Criminal Justice—Bachelor of Science
Ethnic Studies—Transcript recognition
Latin American Studies—Transcript recognition
Russian Studies—Transcript recognition
Women's Studies—Transcript recognition

Degree Requirements

REQUIREMENTS FOR THE BACCALAUREATE DEGREE

1 Satisfactory completion of a minimum of 128 semester hours distributed as shown in the curriculum for the student's major field.
2 Achievement of a cumulative index of at least 2.00 (C) and an average of at least 2.00 (C) in the major field.
3 Attendance at West Chester State College for at least 30 semester hours of the degree program.
4 Fulfillment of any special requirements or program competencies which are particular to a department or a School.
5 Fulfillment of all financial obligations to the College. including payment of the graduation fee; and of all other obligations, including the return of College properties.
6 Compliance with all academic requests from the Dean of Undergraduate Studies, including the request for Notice of intention to Graduate.

THE GENERAL REQUIREMENTS—COMMON TO ALL CURRICULA

West Chester State College's over-all curriculum has been substantially altered in the last few years as the result of a two-year comprehensive investigation with recommendations by committees and councils comprised of faculty, students, and administrators. Aimed at determining genuine needs and realistic goals for today's students, the extensive study has resulted in a new program of general requirements allowing more freedom of choice for the student and greater flexibility for the departments in planning their curricula.

It was felt that to insure a broad education encompassing experiences in humanities and the social and natural sciences, it would be imprudent to eliminate the general requirements completely. At the same time, however, it became obvious that today's education must be versatile because of the many new courses and areas of study that are constantly becoming available.

As a result, the "new" general requirements represent a decrease in required hours and specific required courses while increasing the number of courses that may be used to fulfill a given requirement.

The "new" general requirements apply to all students entering West Chester since June 1974. Those who entered the college prior to that date

continue to follow the general requirements that were in effect at the time of their entrance. These are given in previous issues of the Undergraduate Studies Bulletin through 1972-74 and are also available in all departments.

All students should counsel closely with their advisors. Each department has a handbook or guide outlining courses of study for the various curricula that are available. These give required courses, prerequisites and other information necessary for the successful completion of the student's degree program.

THE BASIC OUTLINE FOR GENERAL REQUIREMENTS

(as revised in April 1974 and introduced to freshmen entering in June 1974 and thereafter)

I BASIC SKILLS **5 SEMESTER HOURS**

English Composition (3)
Physical Education (2)

II HUMANITIES **9 SEMESTER HOURS**

One course in three of the following areas:

Art
Literature
Music
Philosophy
Speech/Theatre

III SOCIAL AND BEHAVIORAL SCIENCES **9 SEMESTER HOURS**

One course in three of the following areas:

Anthropology/Sociology
Economics
Geography
History
Political Science
Psychology

IV SCIENCES AND MATHEMATICS **9 SEMESTER HOURS**

One course in three of the following areas:

Biology
Chemistry
Computer Science
Earth and Space Science
Mathematics
Physics

V FREE ELECTIVES **12 SEMESTER HOURS**

These hours are completely at the choice of the student.

TOTAL: 44 SEMESTER HOURS

HUMAN RELATIONS REQUIREMENT

Effective as of fall, 1976, a one-credit human relations course taken as a part of the New-student Orientation Program is a requirement for all degree candidates.

REQUIREMENTS OF THE SCHOOLS

Two of West Chester's schools have core requirements which must be met in addition to the General Requirements. The requirements are as follows:

ARTS AND LETTERS CORE REQUIREMENTS—15 S.H.

1. Beyond courses selected to meet the General Requirements, one course is required in each of the following areas:

   (a) Art
   (b) Literature
   (c) Philosophy
   (d) Speech Communication/Theatre

2. One additional course is required in one of the areas listed above, beyond the General Requirements.

NOTE:

(a) The requirements shown above apply to Arts and Letters students in both the Bachelor of Arts and Bachelor of Science in Education curricula, within limits set by the department.

(b) In addition to Core requirements, Arts and Letters majors may be required to take certain related courses as determined by the departments.

SOCIAL AND BEHAVIORAL SCIENCES CORE—21 S.H.
All B.A. Programs and all
B.S. Programs in Criminal Justice and Education

(The disciplines included in the Social Science core are: anthropology, economics, geography, government and politics, history, sociology, and psychology)

A. Four courses in the School of Social and Behavioral Sciences in the disciplines not chosen under the General Requirements 12 s.h.

B. One additional course in each of the three disciplines in the School of Social and Behavioral Sciences outside the student's major 6 s.h.

FOREIGN LANGUAGE REQUIREMENTS FOR B.A. DEGREE CANDIDATES

Candidates for the B.A. degree are required to complete the second half of the intermediate year of a foreign language. This means in effect that only the 202 (Intermediate II) language course is actually required. Hence, any student who is not qualified to take the 202 course must prepare himself by taking the elementary (101-102) and/or Intermediate I (201) courses or course or by independent study. (101, 102, and 201 levels may be taken pass-fail if the student wishes.) Students may satisfy the foreign language requirement by presenting evidence of preparation equivalent to the 202 level either by certificate or by examination.

QUALIFYING FOR THE TEACHING CERTIFICATE

Upon satisfying all of the baccalaureate degree requirements listed above, students in teacher education programs may qualify for the Instructional I Certificate, which will be issued by the Pennsylvania Department of Education. The specific applications of the Instructional I Certificate, according to the field or area of study, are detailed under "Teaching Certificates" in Academic Information.

HOMER
SAPPHO
SOPHOCLES
PHIDIAS
PRAXITELES
APELLO
PLATO
ARISTOTLE
BACON
PTOLEMY
COPERNICUS
NEWTON

Programs of Study & Course Offerings

For the convenience of readers, the arrangement of course offerings is alphabetical by department or area of study.

Students may obtain a typical sequence of courses for any of the programs from the offices of the appropriate school or department.

All courses, course substitutions, and course sequences are subject to change.

American Studies

Perry F. Hoberg and Richard J. Webster
Coordinators

Offered jointly by the Schools of Arts and Letters and Social and Behavioral Sciences

Students are exposed to a broad spectrum of American culture and given opportunities to relate the knowledge thus acquired to their vocational interests through concentrations in American Art History, Black Studies, Ethnic Studies, Historic Preservation, Journalism, and Museum Studies. An optional internship provides on-the-job experience.

BACHELOR OF ARTS—AMERICAN STUDIES

1.	General Requirements see page 60	44 s.h.
2.	Foreign Language Requirements	6 s.h.

3. Required Core 23 s.h.
   - Proseminar and Field Experience (AMS 300) 3
   - American Literature I-II (LIT 200-201) 6
   - History of the United States I-II (HIS 151-152) 6
   - Material Culture of U.S. I, II, or III (AMS 301, 302, or 303) (choose any two) 6
   - Senior Thesis or Project (AMS 400) or American Studies Internship (AMS 415, 416) 3-12
4. Elective Core 24-33
   Five American-topic courses are to be taken in Anthropology, Art, Government and Politics, History, Literature, Music, Philosophy, Sociology, with no more than two courses from one discipline.
5. Elective Concentration
   Enough courses to insure that a minimum of 128 s.h. are taken. Each American Studies major is to submit for approval a proposal for a course of study and a sequence of courses. For guidance in the selection of a course track consult either of the American Studies Program Coordinators.

COURSE DESCRIPTIONS

AMS 300 Proseminar and Field Experience (3) Orientation to a methodology and bibliography of American Studies as an interdisciplinary investigation and practical experience through fieldwork. Not to be offered in 1977-78.

AMS 301 Material Culture of U.S. I: Art and Images (3) Colonial period. Cultural approach to development of American values related to visual expression and imaging. Cross-study analysis of the impact of image and object on folk and elite traditions interacting with Indian culture.

AMS 302 Material Culture of U.S. II: Art and Images (3) 19th century. Emphasis on ethnic contributions to the "American mainstream." Particular focus on black Americans.

AMS 303 Material Culture of U.S. III: Art and Images (3) 20th century. Art movements are related to the changed social climate generated by technological materialism. Dehumanization and the development of a new humanism. Particular focus on the influence of youth and counterculture.

AMS 305 American Decorative Arts (3) Study of decorative and utilitarian objects of the American household environment from Colonial period through World War I.

AMS 400 Senior Thesis or Project (3) A concluding "statement" incorporating the interdisciplinary generalist approach.

AMS 401 Independent Studies (1-3) An opportunity to pursue alternative outside-the-classroom study projects; field work in community resources, etc.

AMS 415, 416 American Studies Internship (3-6) Cooperative service-learning experience at community agency, business, or institution.

Anthropology, Sociology, and Social Welfare

Martin Murphy,
Chairperson

PROFESSORS: Becker, Samuelson, Yeakel
ASSOCIATE PROFESSORS: Bartlett, Luck, Main, Murphy, Ravacon
ASSISTANT PROFESSORS: Cowen, Masiuk, McCutcheon, Wingate, Witthoft
INSTRUCTOR: Schirm

The department is organized into two divisions: anthropology-sociology and social work. The faculty of the anthropology and sociology division offer three undergraduate degree concentrations. The faculty of the social work division offer a baccalaureate degree program as well as extension courses through the Social Welfare Institute for Professional Development (see page 71).

The anthropology and sociology division concentrations are:

1. B.A. in Anthropology. The course of study in anthropology focuses on man's biological evolution; on the origin, development and integration of human cultures; and on the interrelationship of biological and cultural factors in the etiology of human behavior.

2. B.A. in Sociology. The course of study in sociology centers on understanding the processes involved in the creation, maintenance and evolution of social structure, and on the impact of diverse structural forms on individual behavior.

3. B.A. in Social Anthropology (Anthropology/Sociology). The course of study in social anthropology/comparative sociology is interdisciplinary, drawing upon offerings in both sociology and anthropology to develop an analytic understanding of the dialectic of social structure and culture.

Majors in these three concentrations should consult the appropriate department handbooks for further details and their advisors for current requirements. Students planning to major in one of these concentrations are advised to take ANT 102 and SOC 200 no later than their sophomore year. A grade of at least B in each of these courses is necessary for admittance. Application for admission is made on forms available from the department office.

REQUIREMENTS COMMON TO ALL PROGRAMS

1. General Requirements — 44 s.h.
2. Foreign Language Requirement — 3 s.h.

3. Social Science Core, see page 61 — 21 s.h.
4. Specialization Requirements — 60 s.h.

BACHELOR OF ARTS—ANTHROPOLOGY TRACK

1. Required Core Courses — 9 s.h.
   ANT 101, 103, 495
2. Specialization Requirements — 12-21 s.h.
   Four to seven courses in anthropology
3. Cognate Requirements — 15 s.h.
   LIN 230; additional courses approved by the student's advisor.
4. Free Electives — 15-24 s.h.

BACHELOR OF ARTS—SOCIOLOGY TRACK

1. Required Core Courses — 21 s.h.
   a. Theory Core (15 s.h.)
      SOC 300, 301, 302, 401, 403
   b. Methodology Core (6 s.h.)
      SOC 322, 421
2. Specialization Requirements — 15 s.h.
   a. SOC 492 (Comprehensive Examination)
   b. Any four advanced courses in sociology
3. Cognate Requirements — 12 s.h.
   Any four non-sociology courses approved by the student's advisor
4. Free Electives — 12 s.h.

BACHELOR OF ARTS—SOCIAL ANTHROPOLOGY TRACK

1. Anthropology-Sociology Core Courses — 6 s.h.
   ANT 341, SOC 302
2. Anthropology — 12 s.h.
   Two topical and two area courses, selected in consultation with the student's advisor.
3. Sociology — 12 s.h.
   One methodology and three topical courses, selected in consultation with the student's advisor.
4. Seminar — 3 s.h.
   ANT 490
5. Cognates — 12 s.h.
   Four courses selected in consultation with the student's advisor.
6. Free Electives — 15 s.h.

COURSE DESCRIPTIONS

ANTHROPOLOGY

Symbol: ANT

PRIMARILY FOR FRESHMEN AND SOPHOMORES

101 Introduction to Anthropology: Biological (3) Fundamentals of human biology, evolution, and the prehistoric development of culture. Spring, odd years.

102 Introduction to Anthropology: Cultural (3) Comparative analysis of culture systems. Fall, spring, summer.

103 Introduction to Anthropology: Archaeology (3) Interpretation of culture through analysis of archaeological remains. Spring, even years. Summer.

113 Archaeological Field Techniques (3) Implementation of archaeological principles and theory in laboratory and field studies. PREREQ OR CONCURRENT: ANT 103. Summer.

120 Cultures of Ethnic Groups in America (3) Survey of the cultural history and traditions of ethnic groups in America. Spring, even years.

140 Folklore in Society (3) Survey of basic American folklore genres. Emphasis on folklore as process, tradition, and as an element of culture. Not offered in 1977-78.

FOR SOPHOMORES AND UPPERCLASSMEN

202 World Ethnology (3) Survey of the social organization, belief systems, and cultures of selected peoples. PREREQ: ANT 102. Fall, odd years.

260 (also HIS 353) Artifacts and Culture (3) See HIS 353. PREREQ: ANT 102.

280 Practicum in Museum Techniques I (3) Exploration of techniques of cataloguing, conserving objects, and of designing and setting up exhibits. Involvement in actual museum work. PREREQ: ANT 102 or permission of instructor. Spring, even years.

FOR UPPERCLASSMEN

A. **Biological Anthropology**

310 Human Paleontology (3) Evolutionary thought; origin and antiquity of the primates; fossil man and living races. PREREQ: ANT 101. (Some background in biology recommended.) Not offered in 1977-78.

B. **Ethnology: Area Courses**

320 American Indian (3) Ethnology of North America. PREREQ: ANT 102. Fall, even years. Summer.

321 American Indian Today (3) Native Americans in contemporary Anglo-America. PREREQ: ANT 102 or permission of instructor. Spring, odd years. Summer.

322 Ethnology of Central America (3) Survey of the modern cultures of Central America: relationships to ancient peoples; the process of modernization in this area. PREREQ: ANT 102. Not offered in 1977-78.

326 Cultures and Peoples of Sub-Saharan Africa (3) Examination of the cultures and societies of Black Africa. PREREQ: ANT 102. Not offered in 1977-78.

327 (also HIS 302) Cultures and Peoples of India (3) See HIS 302. PREREQ: ANT 102.

329 Problems in Ethnology (3) Survey of the ethnographic literature pertaining to specific geographic regions. Area of focus to be announced in advance. PREREQ: ANT 102. Not offered in 1977-78.

C. **Ethnology: Topical Courses**

341 Social Organization (3) Study of social groups, their structure and functioning. PREREQ: ANT 102. Spring, odd years.

342 Political Anthropology (3) Analysis of tribal and peasant political systems. PREREQ: ANT 102. Not offered in 1977-78.

343 Economic Anthropology (3) Analysis of tribal and peasant economic systems. PREREQ: ANT 102. Not offered in 1977-78.

344 Magic, Religion, and Witchcraft (3) An analysis of supernaturalistic ideology and ritual in both tribal and civil society. PREREQ: ANT 102. Spring, even years. Summer.

345 Culture and Personality (3) Study of relationship between culture systems and personality. PREREQ: ANT 102. Fall, even years.

346 Culture Change (3) Empirical and theoretical study of culture change. PREREQ: ANT 102. Not offered in 1977-78.

350 (also Art 350) Primitive Art (3) See ART 350. PREREQ: ANT 102.

D. **Archaeology**

360 Historical Archaeology (3) Historical research through archaeology. Chester County is emphasized through local research projects. PREREQ OR CONCURRENT: ANT 103. Summer.

362 Archaeology of Central America (3) The archaeological record of Central America, covering the significant features of each culture area from modern Mexico to Panama. PREREQ: ANT 103. Not offered in 1977-78.

ADVANCED AND SENIOR COURSES

405 Topical Seminar in Anthropology (3) Selected topics in the subdisciplines of anthropology. Topics announced in advance. Juniors and seniors only. Fall.

410 Independent Studies in Anthropology (1 to 3) Special research projects, reports, readings in anthropology. Juniors and seniors only. PREREQ: Permission of department chairman. Fall, spring, summer.

459 History of Ethnological Theory (3) Development of ethnological theory with emphasis on the nature of explanation in ethnology. PREREQ: Six hours in ethnology and junior or senior standing. Fall.

490 Seminar in Social Anthropology (3) History and theory of social anthropology. PREREQ: Six hours in ethnology and six hours in sociology. Seniors only. Spring.

495 Senior Seminar in Anthropology (3) Discussion and supervised research designed to integrate conceptual and methodological skills. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. Senior anthropology majors only. Fall.

ADVANCED UNDERGRADUATE AND GRADUATE COURSES

500 Strategies and Techniques in Anthropological Research (3)

512 Ethnographic Studies (3)

515 Problems in Anthropology (3)

555 Proseminar in Urban Anthropology (3)

580 (also LIN 580) Language and Culture. See LIN 580.

595 Seminar in Anthropology (3)

599 Independent Studies in Anthropology (1 to 3)

SOCIOLOGY

Symbol: SOC

PRIMARILY FOR FRESHMEN AND SOPHOMORES

135 Explorations in Human Relations (1) Developing awareness of self and others through understanding values, attitudes, and feelings related to race, ethnicity, sexism and differing life styles. (A course for full-time students offered as part of the college Orientation Program). Summer, January.

200 Introduction to Sociology (3) Fundamentals of the sociological perspective on human behavior. Fall, spring, summer.

235 Racial and Ethnic Understanding (3) A human relations course designed to facilitate inter-racial and inter-ethnic understanding. Fall, spring, summer.

240 Sociology of the Family (3) Comparative, historical, and cross-cultural analysis of the family institution. Spring, summer.

250 Contemporary Social Problems (3) Analysis of current social disorders; urban unrest, racial tension, poverty, addictions, crime, and mental illness. Fall, summer.

PRIMARILY FOR SOCIOLOGY MAJORS AND OTHER UPPERCLASSMEN

300 The Sociological Tradition (3) Historical development of the sociological perspective on human behavior; emphasis on the perennial issues in sociological explanation. PREREQ: SOC 200. Fall.

301 Self and Society (3) The emergence, maintenance, and transformation of the self in social interaction. PREREQ: SOC 200. Fall.

302 Social Structure and Behavior (3) Discussion of the major concepts employed in the analysis of social structure and of the impact of various features of social structure on human behavior. PREREQ: SOC 200. Spring.

322 Introduction to Social Research (3) The logic of social research. Fundamentals of research design, data collection and reduction, and non-statistical analysis. PREREQ: SOC 200. Spring.

335 Racial and Cultural Minorities (3) Analysis of the implications of racial differences, the factors affecting prejudice and discrimination, and structural aspects of group conflicts. PREREQ: SOC 200. Fall.

341 Social Stratification (3) Analysis of inequalities in wealth, power, and prestige in contemporary societies. PREREQ: SOC 200. Fall.

342 Urban Sociology (3) A descriptive study of the form and development of the urban community with respect to demographic structure, spatial and temporal patterns, and functional organization. PREREQ: SOC 200. Spring.

343 Complex Organizations (3) Analysis of large-scale formal organizations with emphasis on bureaucracy as the dominant form of social organization in the West. PREREQ: SOC 200. Not offered in 1977-78.

344 Sociology of Religion (3) Theoretical analysis of social functions of religion; history and internal structure of religious institutions; their relationship to other institutions. PREREQ: SOC 200. Spring.

345 Sociology of Education (3) Sociological dimensions of educational institutions. PREREQ: SOC 200. Not offered in 1977-78.

351 Deviance (3) Causes and consequences of the construction and violation of social norms. PREREQ: SOC 200. Spring.

352 Criminology (3) Sociological analysis of the definition, distribution, and causes of crime, and of social response to it. PREREQ: SOC 200. Fall, Summer.

353 Juvenile Delinquency (3) Theories of delinquency; evaluation of programs for its prevention and controls. PREREQ: SOC 200. Summer.

361 Sociology of Medicine (3) A sociological perspective on health, illness and medical care. PREREQ: SOC 200. Not offered in 1977-78.

362 Sexuality in Society (3) The social dimensions of human sexuality. PREREQ: SOC 200. Summer.

363 Small Groups (3) Critical survey of group techniques designed to change behavior through interpersonal or collective experience. PREREQ: SOC 200. Not offered in 1977-78.

371 Applied Social Change (3) Strategy and tactics of planning and guiding change in small and large-scale social systems. PREREQ: SOC 200. Not offering in 1977-78.

401 Social Stability and Change (3) Critique of the leading models of social order and change; analysis of major transformation in Western civilization. PREREQ: SOC 200. Fall.

403 Modern Sociological Theory (3) Theories of social order. Logic of theory construction and evaluation. PREREQ: SOC 200. Senior standing recommended. Spring.

410 Problems in Sociological Analysis (3) Analysis of several of the key philosophic issues underlying sociological thought. PREREQ: SOC 300 and/or 302, or permission of the instructor. Spring.

421 Social Statistics (3) The application of statistical methods to sociological hypothesis testing. PREREQ: SOC 200. Fall.

490 Independent Studies in Sociology (1 to 3) Individual research projects, reports, and/or readings. Seniors only. PREREQ: permission of department chairman. Fall, spring, summer.

491 Topical Seminar in Sociology (3) Special topics in theory or methodology. Topics announced in advance. Admission by permission of instructor. Juniors and seniors only. Not offered in 1977-78.

492 Senior Seminar in Sociology (3) Preparation for Comprehensive Examinations. Senior sociology majors only. Spring.

Social Work Program

John A. Main
Program Director

The Social Work Program combines a liberal arts background with the analytical framework of the social and behavioral sciences and the principles and methods associated with the professional practice of social work. The student applies theory to practice in the varied field experiences of the sophomore, junior, and senior years. The ultimate goal of this program is to have the student develop a basic competency in generic social work practice.

The Social Work Program is accredited as a professional degree in social work by the Council on Social Work Education.

Admission to the program is limited, because of the limited number of approved field placement agencies. Those students interested in majoring in Social Work should take Introduction to Social Welfare I and II (SWO 200 and SWO 201) during the fall and spring semesters of their sophomore year. They are advised to apply for admission at the beginning of the spring semester of their sophomore year. Applications for admission to the Social Work Program will be reviewed by the Admissions and Standards Committee of the Social Work Program during the spring semester of the applicant's sophomore year. To be eligible for consideration for admission the student must have achieved at least an average of 2.5 in social science courses and a B in Introduction to Social Welfare (SWO 200).

TRANSFER STUDENTS FROM OTHER COLLEGES

Those students transferring from other colleges as sophomores or juniors will be directed by the Admissions Office of the college to make an appointment with an appropriate faculty member of the Social Work Program to discuss their status in regard to admission to the program. A limited number of openings are held for transfer students with A.A. Degrees in Social Work or Human Services. Transfer students with no academic background in the helping professions will be asked to enter the program through the admissions procedure described above.

INSTITUTE FOR PROFESSIONAL DEVELOPMENT

In 1972, the Social Welfare Institute for Professional Development, designed for persons employed in the human services, was introduced. The institute has two facets. The first is designed for workers without college preparation who wish to enhance their on-the-job skills. The second is designed for workers who have baccalaureate degrees in other areas but lack specific professional preparation for social work.

Courses related to on-the-job skills are in interviewing (SWO 250, 251), information and referral (SWO 260, 261) the communication and collaboration process (SWO 270, 271), and supervision (280, 281).

A professional social work sequence is available for students with baccalaureate preparation in other areas. These students take social work courses

lacking in their previous preparation plus a supervised field practicum. Concurrent job responsibilities supply a framework for courses and practicum whenever possible. A vocational certificate carrying equivalent professional recognition is available to students completing the program.

SOCIAL WORK FIELD PLACEMENTS

Chester County Board of Assistance
Chester County Children's Services
Chester County Farms
Crozer-Chester Medical Center
Delaware County Child Care Services
Delaware County Day Care Association
Delaware County Intermediate Unit
Delaware County Juvenile Court
Embreeville State Hospital
Family Service-Mental Health Centers of Chester County
Family Service of Delaware County
Freedom Valley Girl Scout Council
Hospital of the University of Pennsylvania
Jefferson Hospital
Mental Health and Mental Retardation Board of Chester County, Base Service Unit
Norristown State Hospital
Pennhurst State School and Hospital
United Farm Workers
West Philadelphia Consortium
Wilmington School District

BACHELOR OF ARTS—SOCIAL WORK

1. General Requirements, see page 60 — 44 s.h.
2. Foreign Language Requirements — 3 s.h.
3. Social Science Core, see page 61 — 21 s.h.
4. Social Work Concentration: — 39 s.h.
   SWO 300-301, 320-321, 350, 375, 420-421, 430, 450-451, 495-496.
5. Cognates (Psycho-Social Foundation) — 12 s.h.
   Select four courses, under advisement
6. Electives — 9 s.h.

Social work majors should choose with their advisor an interdisciplinary elective program geared to their learning needs and professional interests.

COURSE DESCRIPTIONS

Symbol: SWO

PRIMARILY FOR SOPHOMORES

200 Introduction to Social Welfare I (3) Current social problems and the influence of societal values upon their definition and upon the structures devised to meet them. Two hours per week of volunteer experience in social agency. Fall.

201 Introduction to Social Welfare II (3) The history of social welfare in the United States, and an overview of major fields of social work practice with emphasis upon legislation and policy formulation. Spring.

INSTITUTE COURSES

240 Framework for Social Work Practice (2) A historical survey of the cultural, economic and political forces influencing social welfare legislation and social work practice. Fall, spring, summer.

250 Human Problems and the Interviewing Process I (2) The development of more effective responses to the dynamics of human behavior within the interview. Current interviewing experience necessary. Fall, spring, summer.

251 Human Problems and the Interviewing Process II (2) Advanced techniques of interviewing. Current interviewing experience necessary. Fall, spring, summer.

260 Information and Referral I (2) Interviewing skills for the collection of factual information and for problem assessment; an analysis of the network of local human services and procedures for referral. Fall, spring, summer.

261 Information and Referral II (2) The compilation of case histories, case summaries and referral summaries; the dynamics of inter-agency, inter-disciplinary collaboration and follow-through. Fall, spring, summer.

270 Dynamics of Staff Collaboration I (2) An exploration of the concepts of role and function as they relate to various positions within social agencies. Fall, spring, summer.

271 Dynamics of Staff Collaboration II (2) Theoretical framework building upon basic concepts developed in SWO 270. Fall, spring, summer.

280 Social Work Supervision I (2) An integration of theoretical content with the practice of supervision, taking into account the unique characteristics and problems of social agencies. Fall, spring, summer.

281 Social Work Supervision II (2) Use of generic social work principles and concepts for the supervisor as teacher, administrator, and model for practice. Fall, spring, summer.

290 Dynamics of Case Management (2) An examination of the following areas of social work practice skills: problem assessment, the professional relationships, short term counseling, crisis intervention, and systems analysis. Fall, spring, summer.

B.A. COURSES FOR UPPERCLASSMEN

300 Social Welfare Systems I (3) Introduction to selected items in systems analysis, emphasizing application to understanding the institutional and organizational framework of human behavior. Fall.

301 Social Welfare Systems II (3) Systems concepts applied in the study of selected social-structural problems, various systems responses, and implications for social work practice. Spring.

320 Principles and Methods of Social Work Practice I (3) A systems approach to the use of generic principles and methods of social work practice. Fall.

321 Principles and Methods of Social Work Practice II (3) A continuation of SWO 320.

325 Race Relations and Social Work Practice (3) An examination of the significance of racial, ethnic, and cultural difference as potential variables of the helping relationship in social work. Summer.

350 Psycho-Social Foundations of Human Behavior (3) Life cycle of individual development in a framework of interrelationships of self-concept, reference groups, social reality, and social role. Fall.

375 Field Placement (3) Junior year field experience for the social work major. Spring.

410 Independent Studies in Social Welfare (1 to 3) Special research projects of practices in social welfare. Seniors only. PREREQ: permission of department chairman. Spring.

430 Introduction to Social Research (3) Introduction to the nature and function of the research process, emphasizing application in social work practice and research. Spring.

431 Methods of Social Inquiry (3) Fundamentals of problem identification, research design, sampling, observation, data collection and reduction, and non-statistical analysis. Spring.

450-451 Field Experience I-II (6) (6) Supervised work experience in a social agency. Seniors only. Fall, Spring.

495 Senior Seminar in Social Work (3) Integration of field and classroom experiences into a professional framework for the social work helping process. Fall.

496 Social Work Process Seminar (3) Seminar on social work process designed to relate to the second semester field experience. Fall.

ADVANCED UNDERGRADUATE AND GRADUATE COURSES

542 (also CRJ 542) Interviewing and Counseling the Offender I (3) (See CRJ 542).

543 (also CRJ 543) Social Rehabilitation of the Offender (3) Interviewing and counseling skills with the juvenile offender, emphasizing the use of the court and probationary process as dynamics for rehabilitation. PREREQ: SWO 542 (CRJ 542) Summer.

Art

Perry F. Hoberg
Chairperson

ASSOCIATE PROFESSORS: Hawthorne, Hemphill, Hoberg, Lasuchin, McKinney, Sermas, Simmendinger, White
ASSISTANT PROFESSORS: Blake, Defino, Rarick, Shapiro
INSTRUCTORS: Baker (Part-time), Reed

The undergraduate programs offered by the Department of Art give students the opportunity to achieve competence in the practice, theory and history of art taking into consideration both personal and vocational needs. Each student's advisement reflects an effort to relate the general requirements to art subjects.

In addition to the formal programs listed below, alternative courses of study may be planned in conjunction with other departments. Students are encouraged to make connections between art and other subjects where appropriate to achieve vocational and personal advancement. Proposals for alternative programs should be made to the department after consultation with the student's advisor.

BACHELOR OF ARTS—ART

1. General Requirements (see page 60) 44 s.h.
2. Language Requirement (Intermediate II Level) 3 s.h.
3. Arts and Letters Requirement 15 s.h.
4. Art Department Program Requirements (Select One)
   A. *Studio Art I* sequence—(prepares student for graduate study and/or personal/vocational competence)
      (1) Studio Foundation—(106, 111, 112, 206, 220, 221) 18 s.h.
      (2) Art History—(elect from any art history, aesthetics, museum, or AMS 301, 302, 303, 305 courses) 12 s.h.
      (3) Other Studio—(elect from studio offerings.) 42 s.h.
      Total 72 s.h.
   B. *Studio Art II* sequence—(provides a minimal concentration with wide choice of free electives or second concentration options)
      (1) Studio Foundation—(106, 111, 220) 9 s.h.
      (additional foundation course(s) required dependent upon media concentration)
      (2) Art History—(any art history, aesthetics, museum, or AMS 301, 302, 303, 305 courses) 12 s.h.
      (3) Other Studio—(elect from studio offerings. See special note below 15 s.h.
      Total 36 s.h.
   C. *Art History*—(preparation for graduate study in art history or museum study)
      (1) Art History Foundation—(381, 382, 383, 384, 385, 386, 403) 21 s.h.
      (2) Studio Foundation—(106, 111, 220) 9 s.h.
      (3) Other Art History—(elect from any other art history, aesthetics, museum, AMS 301, 302, 303, 305 courses) Total 6 s.h.
      Total 36 s.h.
      (4) Majors are advised to take additional art history unless considering a double concentration or other interdisciplinary goals.

Special Note: Studio majors are advised to consider concentration emphasis in general categories of 2-dimensional, 3-dimensional, or inter-media, or, if the subject area permits, more specialized concentration in single or limited media.

Other considerations: Studio Art II majors may consider a second concentration in art history, or vice versa. Or, in either case, a second concentration with another major department may be considered.

Internships are also available in certain areas such as museums, historical societies, or institutions where art therapy or other art services may be required.

5. As appropriate, free electives complete 128 s.h. program.

COURSE DESCRIPTIONS

Symbol: ART

101 Fine Arts (Art) (3) A survey course in the fine arts stressing the cultural contributions of man past and present.

105 Art Workshop (3) An art workshop for non-art majors. Exploration of art materials and techniques.

106 Beginning Drawing (3) Drawing from direct observation and an introduction to ideas of perception and interpretation. Use of a variety of media.

111 Basic Design (2-D Design) (3) Experimentation with shape, space, light, color, texture in a variety of media toward developing a visual vocabulary.

112 Color and Design (2-D Design) (3) Extensive study of color theory and its application to a variety of fine and industrial art projects.

206 Intermediate Drawing (3) Work in a variety of media and methods designed to develop "aggressive seeing." Emphasis on the exploration of line as boundary to describe form and space, as gesture, as calligraphy, and for expressive qualities as a tool for working in other media. PREREQ: ART 106.

211 Graphic Design I: Lettering and Layout (3) Exploration of the design aspects of lettering and layout for communication.

212 Graphic Design II: Graphic Concepts (3) Continuation of ART 211 with emphasis on expressive possibilities of lettering and typography. Further study of production methods and use of silk-screen techniques as means of reproduction. PREREQ: ART 211, 242, or permission of instructor.

216 Beginning Painting (3) An introduction to the basic materials and techniques of the painter with emphasis on color.

217 Intermediate Painting (3) Advanced work with models, still life, landscape. Emphasis upon technique and composition.

220 Fundamentals of 3-Dimensional Design (3) An introduction to theories, processes, and elements of perception and visual design in a three-dimensional situation. Problems will be geared to problem solving rather than object-making.

221 Advanced 3-Dimensional Design (3) Experimentation with various materials toward solving problems in terms of visual elements as they relate to volumetric forms in space.

222 Beginning Sculpture (3) An introduction to the basic fundamentals of sculpture, including concepts of design, knowledge of tools and techniques, materials and processes. Project assignments to be rendered in clay, plaster, wood, and stone.

226 Water Color I (3) An introduction to the basic tools and techniques of the watercolor painter. Emphasis upon transparent water color.

227 Water Color II (3) Advanced problems in water color, gouache, tempera, and mixed media.

231 Ceramics I: Basic Techniques (3) Introduction to the basic techniques of ceramics. Hand and wheel methods of construction; knowledge of clay bodies, firing, and glazing.

232 Ceramics II: Intermediate Techniques (3) Fundamental methods of creating clay forms on the wheel. Experimentation with clay bodies, glazes, and the operation of the kiln. Design is stressed.

241 Printmaking: Introduction to Relief Printmaking (3) An introduction to the medium of print-making; linoleum cuts, woodcuts, and collographs.

242 Printmaking: Introduction to Silk-Screen Printmaking (3) An exploration of the basic techniques of silk-screen printing. Emphasis upon color and design.

243 Printmaking: Intermediate Etching (3) Continuation of ART 241 emphasizing expressive possibilities of various relief techniques and their combination with other print media. PREREQ: ART 241, or permission of instructor.

244 Printmaking: Intermediate Silk-Screen (3) Continuation of ART 242 emphasizing expressive possibilities of various silk-screen techniques and their combination with other print media. PREREQ: ART 242, or permission of instructor.

245 Architectural Drawing (3) Studio experiences in layout; preparation of plans and elevations, presentations, (renderings) and architectural lettering. Use of mechanical drawing tools to help students express steps that occur from design of to realization of a structure.

250 Art in Early Childhood Education (3) For those who will work with very young children, seminar, field experience and workshop activities designed to prepare adults to help children explore, discover, manipulate, imagine, and express.

251 Art in the Elementary School (3) Workshop and seminar providing experience with a wice variety of media appropriate for use with children as well as investigation into the philosophy and psychology of children's art.

252 Art in the Elementary School II (3) Investigation of the creative growth of the child. Planning art lessons; visiting schools; discussions; assigned readings in art education.

256 Art in Elementary Education (3) An intensive study of the role of art in elementary education with relation to student, teacher, and community. Emphasis on current trends in art education.

261 Arts and Crafts: Recreation (3) The preparation of programs and materials for the teaching of arts and crafts in camps, playgrounds, clubs, and hospitals.

263 Art as Therapy (3) Exploration of potentials of art activity chosen for their therapeutic value in work with physically or emotionally handicapped in either educational or therapeutic millieu.

266 Crafts: Three-Dimensional Media for Elementary Education (3) Exploration of a variety of media applicable to the teaching of arts and crafts in the elementary school.

306 Life Drawing (3) An exploration of the abstract dynamics of figure drawing with particular pplication of anatomical structure to expressive design. PREREQ: ART 106, 206.

307 Drawing: Independent Studies (3) Individualized instruction in increasingly complex formal and expressive problems in drawing.

310 Graphic Design III: 3-D Graphics (3) Problems in advanced design: the application of previous studies in design to specific projects. PREREQ: ART 211, 242, or permission of instructor.

311 Graphic Design: Independent Studies (3) Individualized instruction in design problems at an advanced level.

316 Advanced Painting (3) Emphasis upon advanced problems in painting in a variety of techniques encouraging individual expression.

317 Painting: Studio Problems (3) Concentration upon individual work and professional competence. Group critiques and discussions.

320 Painting: Independent Studies (3) Individualized instruction. Preparation for senior show.

321 Intermediate Sculpture (3) More advanced problems in sculpture with emphasis on individual exploration of form, structures, and process. Independent projects to be rendered in choice of materials to include clay, plaster, wood, and stone.

322 Advanced Sculpture (3) Continued exploration and development of individual form and process awareness through involvement with modeling, casting, fabrication, and assemblages. In addition to clay, wood, stone, and plaster, metals and plastics will be utilized.

325 Sculpture: Independent Studies (3) Individualized instruction in advanced sculpture. Preparation for senior show.

331 Ceramics III: Advanced Techniques (3) An advanced course to develop craftsmanship and to explore clay as a means of individual expression.

332 Ceramics: Studio Problems (3) Work at an advanced level in specialized ceramic techniques.

335 Ceramics: Independent Studies (3) Individualized instruction as well as research and study in ceramic design.

341 Printmaking: Introduction to Intaglio Printmaking (3) Intaglio techniques, etching, dryp point, aquatint, and engraving.

342 Printmaking: Introduction to Lithography Printmaking (3) Fundamentals of stone and plate lithography.

343 Printmaking: Intermediate Etching (3) Continuation of 341 with emphasis on expressive qualities of the medium and its possible combination with other print media. PREREQ: ART 341, or permission of instructor.

344 Printmaking: Intermediate Lithography (3) Continuation of ART 342 with emphasis on expressive qualities of the medium and its possible combination with other print media. PREREQ: ART 342, or permission of instructor.

345 Printmaking: Independent Studies (3) Individualized instruction in depth in a selected printmaking medium.

346 Crafts: Jewelry (3) The basic process of jewelry making with emphasis upon creative design. Work in metals, copper, silver, gold.

347 Crafts: Weaving (3) Basic techniques of weaving are explored, with emphasis upon fabric design and craftsmanship.

350 Primitive Art (Also ANT 350) (3) Analysis of primitive art as determined through ritual and myth. Focus includes ethnographic parallels to prehistory and the concept of primitivism in the West.

358 Curriculum Development in Art (3) Organization and development of programs in art education. Emphasis on an understanding of art in the educational process.

359 Resources in Art Education (3) An investigation of community and cultural resources for use in art education and their adaptability to the school program.

360 Function of the Museum in Art (3) Role and function of the museum as an educational and cultural institution; its service to school and community.

361 Museum Practice (3) Firsthand experience in museum practice through work at the Brandywine River Museum and other area museums. PREREQ: ART 360.

381 Near Eastern Art: Ancient Antiquity (3) The art and architecture of Ancient Egypt, Mesopotamia, Arabia, Syria, and Palestine from 3000—500 B.C.

382 Art of Classical Antiquity (3) The art and architecture of the Greeks, Etruscans, and Romans.

383 Art of Middle Ages (3) Gothic art and architecture and their development from Early Christian and Romanesque art.

384 Art of Renaissance-Baroque (3) Study of the art forms of the 15th through 17th century in Europe as they affect social and religious crosscurrents.

386 Modern Art (3) Development of modern art from the work of Cezanne, Van Gogh, and Gauguin through to the art of today. Architecture of the 20th century.

401 Introduction to Contemporary Aesthetics (3) The search for the meaning behind contemporary art forms and the emergence of a new aesthetic.

402 History of Aesthetics (3) Reading and interpreting art documents from the Greeks to the 20th century. PREREQ: two art history courses from this time frame, and ART 401.

404 Ethnic-American Art (3) Study of ethnic development; adoption and adaptation of Western traditions. Emphasis on relation of art expression to alienation.

405 Russian Art (3) A history of the art and architecture of Russia from medieval beginnings through social realism to socialist realism.

407 Oriental Art (3) Critical survey of historic art forms, from the earliest beginnings, of all Asia, Near, Middle, and Far East.

409 Weaving: Independent Studies (3) Individualized instruction and project assignments.

411 Latin-American Art (3) An analysis of the impact of Renaissance-Baroque forms and Counter-Reformation theology on native traditions and expressions in the new world.

412 American Architecture (3) A study of the style and structure of American architecture from the 17th century to the present.

413 American Art (3) A survey of American painting and sculpture from Colonial times to the present.

414 Research and Methodology in Art (3) Introduction to basic research methods and the use of reference material relevant to the study of art history.

415 Art History: Independent Studies (3) Opportunity for the student to pursue a particular field of interest. PREREQ: ART 414.

419 Women in Art: Madonna or Model? Traces the position of the woman artist in society and its results. What role has woman played as the subject of painting through the ages? What are women artists creating today?

485 Roman-Greek Archaeology (3) A study of the discovery, preservation, and analysis of Greek, Etruscan, and Roman archaeological finds.

ASTRONOMY—See Earth Sciences

Biology

Robert W. Bernhardt
Chairperson
Margaret Y. Martinez
Assistant Chairperson

PROFESSORS: Brown, R , Cinquina, DeMott, Dorchester, Overlease, Romig, Woodruff
ASSOCIATE PROFESSORS: Bernhardt, Brown, W , Cullen, Martinez
ASSISTANT PROFESSORS: Eleuterio, Jones, Waber, Webster

The major in biology centers about a core of courses which emphasize broad unifying principles. The foundation subjects—general biology, general botany, and general zoology—are followed by the integrative disciplines of genetics, ecology, and general physiology. Available electives provide enriching experiences in many areas of biology.

In addition to the two programs shown below, an inter-departmental program is available which leads to the Bachelor of Science in chemistry-biology. See Department of Chemistry.

BACHELOR OF ARTS—BIOLOGY

The B.A. program in biology provides both the liberal education and the special preparation required for careers in college teaching, government service, independent and industrial research, science-related sales and public relations, and other areas of business. This program also prepares students to qualify for admission to graduate and professional schools.

The requirements for this degree are: Thirty-three credit hours in the supportive sciences (CHE 103-104, CHL 103-104, CHE 231-232, CHL 237, PHY 103-104, MAT 121, 131). Thirty-four credit hours in Biology (BIO 110, 115, 117, 330, 361, 370, 490, and nine credit hours of BIO electives). Biology 110, 115, and 117 must be passed with a grade of "C" or better. Satisfy the foreign language requirement which applies to all candidates for the B.A. degree. Satisfy all general education requirements of the college.

BACHELOR OF SCIENCE IN EDUCATION—BIOLOGY

The requirements for this degree are: Twenty-one credit hours in the supportive sciences (CHE 103-104, CHL 103-104, CHE 230, CHL 230, MAT 105, 121), thirty-two credit hours in biology (BIO 110, 115, 117, 150, 330, 361, 370, 490 and six hours of BIO electives). Biology 110, 115, and 117 must be passed with a grade of "C" or better. Twenty-nine hours of professional education courses (see page 194). Satisfy the general education requirements of the college.

COURSE DESCRIPTIONS

Symbol: BIO unless otherwise shown
(3-2) represents 3 hours lecture and 2 hours lab.

100 Basic Biological Science (3) Basic principles of biology. Cell theory, energy metabolism, genetics, development, diversity of life forms, and ecology. Not open to biology majors. (2-2).

101-102 Anatomy and Physiology for Nurses I-II (4) (4) Correlation of basic human structure with function, designed for student nurses with varying scientific backgrounds. (3-2) 101 must precede 102.

104 Microbiology for Nurses (4) A fundamental background in principles of microbiology and the nature and epidemiology of microbial diseases. Emphasis on host-parasite interactions. Recent advances in immunology and serology. PREREQ: one semester of college chemistry. (3-2)

110 General Biology (4) The concepts general to all living organisms such as the life of cells, genetics, evolution, ecology, and man's role in the living world. (4-2)

115 General Botany (4) Survey of the plant kingdom with stress on distribution, anatomy, physiology, reproduction, and economic importance of the plants from bacteria to and including the angiosperms. (3-3) PREREQ: BIO 110.

117 General Zoology (4) Principles of animal biology. Form and function of vertebrate and invertebrate animal types. (3-3) PREREQ: BIO 110.

150 Contemporary Issues in Biology Teaching (1) Secondary science curriculum, professional organizations, academic preparation of science teachers. (1-1)

200 Basic Genetics (3) A course for non-major students. Mendelian laws of inheritance, Probability, organic evolution, and social implications of population control, genetic engineering, etc. Not open to majors in elementary education or to students with credit for BIO 100 or its equivalent. (2-2). Not offered in 1977-78.

201 Basic Ecology (3) A course for non-major students. Field, forest, freshwater, and marine environments studied through field experiences. (2-2)

203 Current Issues in Ecology (3) A course for non-majors dealing with the underlying ecological bases for current issues taken from the popular media during the semester in question. Offered in spring.

209 Human Anatomy (4) The organ systems of man with emphasis on gross structure. Occasional reference to microscopic structure, development, function, and pathology. Laboratory work deals with the human skeleton and dissection of the preserved cat. (3-2)

271 Wildlife Conservation (3) Principles of conservation of plant and animal resources. Collateral reading assignments. PREREQ: BIO 100 or one semester of botany or zoology.

272 Field Ecology and Natural History (3) Class and field work in natural history and ecology for the prospective teacher. Identification of local organisms and pertinent ecological concepts. Not counted toward a biology major. (2-3) PREREQ: permission of department. Offered in fall.

275 Field Botany (3) Methods of studying plants in their natural surroundings. Use of keys, botanical manuals, and illustrated floras to identify living specimens. (2-3) PREREQ: BIO 100 or 115. Offered in spring of even years.

277 Field Zoology (3) Animal life in the surrounding localities. Identification, behavior, habitats, feeding, and reproduction. (2-3) PREREQ: BIO 100 or 117. Offered in fall every other year. Not offered in 1977-78.

307 Pathophysiology (3) An integrated study of the processes involved in the total body systemic complex as it changes from the ordered homeostatic condition to the imbalanced diseased state. The use of diseased models, with clinical considerations, strengthens the concepts. (4) PREREQ: BIO 101-102. Offered in fall.

309 Human Physiology (4) Basic human functions with emphasis on the circulatory, respiratory, and nervous systems. (3-2)

330 Genetics (4) Nature of genetic material; its qualitative and quantitative variation; recombination; interaction of gene products; regulation of genetic material; its role in evolution. (3-2) PREREQ: BIO 100 or 110.

348 Animal Development (3) Introduction to principles of animal development; laboratory study of vertebrate embryos. (2-3) PREREQ: BIO 110, 330. Offered in spring.

357 Comparative Vertebrate Anatomy (3) Comparative study of the principal organ systems of selected vertebrates as to their structure and evolutionary relationships. (2-3) PREREQ: BIO 117. Offered in Spring.

361 General Physiology (4) General principles of physiology. Concept of homeostasis; nature of protoplasm; acid-base balance; bioenergetics; electrophysiology; enzyme activity. (3-3) PREREQ: CHE 230 or 231, BIO 117, MAT 105 or equivalent.

364 Bacteriology (4) Microscopic forms of life commonly encountered in biological work. Culture techniques and physiological processes of microorganisms. (3-3) PREREQ: CHE 230 or 231. Offered in fall.

365 Plant Physiology (3) Physiological processes of plants. Photosynthesis, respiration, intermediate metabolism, entrance of solutes into the plant, water metabolism, and growth regulators. (2-3) PREREQ: BIO 115, CHE 230 or 231. Offered in fall.

370 Ecology (4) Relationship between living things and their environment approached through the study of individual ecosystems. The aquatic, forest, field, and urban ecosystems. (3-3) PREREQ: 8 hours of biology or permission of instructor.

377 Entomology (3) Insects: their structure, functions, classifications, economic importance, and biological significance. (2-3) PREREQ: BIO 100 or 117. Offered every other year. Not offered in 1977-78.

378 Ornithology (3) Introduction to the birds of Pennsylvania with emphasis on field identification. Classification, migration, songs, courtships, nesting, care of young, and plumage changes. (2-3) PREREQ: BIO 100 or one semester of zoology. Offered in spring.

414 Biological History (3) The story of the development of the biological sciences. Prerequisites: BIO 115, 117. Offered in summer session.

421 Cytology (3) Intracellular organization of plant and animal cells, correlated with structure, chemical constitution, and function. (2-3) PREREQ: BIO 115, 117, CHE 104. Offered in fall.

430-439 Course Topics in Biology (1-3) Courses in this series are of timely interest to the student. Topics may include: biological terminology, laboratory techniques, mycology, etc. Open only to junior and senior science majors.

452 Parasitology (3) Biology of the principal types of animal parasites. PREREQ: BIO 117. Offered in spring.

454 Mycology (3) An introductory course including a general study of the biology of fungi and a survey of the field of medical mycology. (3). PREREQ: BIO 110 plus 4 hrs. of biology. Offered in fall every other year.

459 Regional Human Anatomy (3) A regional approach to the study of human anatomy: head and neck, thoracic cavity and thoracic wall, abdominopelvic cavity and abdominal wall, upper and lower extremities. (2-2) PREREQ: college biology. Not offered in 1977-78.

467 General Endocrinology (3) Anatomy and physiology of the ductless glands; role of hormones in regulating and coordinating body processes. PREREQ: college biology and organic chemistry. Offered in summer session.

472 The Living Forest (1) Investigation of an area of the South Campus forest to identify its major components and structure. Not counted toward a biology major. Summer session only.

475 Common Trees of Chester County (1) Survey of common native (and some ornamental) trees of Chester County, including identification and relationships of species to habitat; economic uses. Not counted toward a biology major. Summer session only.

476 Common Summer Flowers of Chester County (1) Survey of common summer wild flowers (and some weeds) of Chester County, including identification and relationships of species to habitat. Not counted toward a biology major. Summer session only.

477 Summer Birds of Chester County (1) Location, observation, and identification of summer resident birds in Chester County; nesting, courtship, song, and basic anatomy. Not counted toward a biology major. Summer session only. Not offered in 1977.

484 Epidemiology (3) A general study of the epidemiology of both infectious and non-infectious diseases, including industrial and environmentally related health problems. Methods of interviewing and data collecting are also included. (3) PREREQ: BIO 104 or 364. Offered in fall every other year.

485 Plant Taxonomy (3) Principles of evolution as illustrated by the principles of plant taxonomy. Modern concepts of biosystematics. Practical experience in plant identification. (2-3) PREREQ: BIO 115. Not offered in 1977-78.

487 Animal Taxonomy (3) Procedures and principles governing the classification of animals with emphasis on morphological, physiological, ecological, and ethological characters. PREREQ: college biology. Not offered in 1977-78.

490 Biology Seminar (1) Reports on special topics and current developments in the biological sciences. PREREQ: 18 hours of biology.

491 Special Problems in Biology (1 to 3) Tutorial course primarily for advanced undergraduate biology majors capable of independent study and research on a problem approved by the supervising instructor. PREREQ: consent of instructor.

ScE 350 Science Education in the Secondary School (3) A methods course emphasizing knowledge of curricular development and skill in planning, involving the design and execution of learning activities for all instructional modes. (2-2) PREREQ: BIO. 150 for biology majors.

For courses in Marine Science, given in summer only, see Earth Sciences.

Business and Economics

Andrew Wilson Green,
Chairperson

PROFESSORS: Green, Schooler, Sylvester, Thorson
ASSOCIATE PROFESSORS: Alexander, Ballas, DeMoss, Hassler
ASSISTANT PROFESSORS: Chu, Galbraith, Morgan, Smith

The goal of the Department of Business and Economics is to train students for careers in business, for administrative careers in non-business organizations, and for the successful operation of their own businesses.

Students must choose one of four areas of concentration offered by the Department: Accounting, Management, Marketing and Economics.

The accounting and marketing concentrations prepare students for careers in these specialized functions of business. The economics concentration emphasizes the understanding of economic theory rather than career preparation. The management concentration prepares students for a business career by instruction in the theory and practice of management, but does not prepare a student for a career in any particular business or business function.

The Department of Business and Economics is making plans for a concentration in finance to prepare students for careers in real estate, insurance, banking, and related fields. The Department of Business and Economics cooperates with the Department of Mathematics in its program in computer science.

BACHELOR OF SCIENCE—BUSINESS ADMINISTRATION

Substantial revisions in present course requirements for the B.S. degree in Business Administration are under consideration at the present time and may be in effect as early as September, 1977. The course requirements for the B.S. degree in Business Administration in effect at the time of catalog publication are listed below. Students enrolling for the B.S. degree in Business Administration after September, 1977 should check with the department office to ascertain the course requirements currently in effect.

BUSINESS CONCENTRATIONS:

Accounting	Management
Economics	Marketing

1. General Requirements 44 s.h.
See page 60

2. Social Science Core 6 s.h.
   Six hours of any area of social sciences, other than the major, the student's preference.
3. Business Administration Core Requirements 36 s.h.
   BAC 201-2, BLA 301, ECO 335, BAD 201, BMK 221, ECO 351-2, BFN 325, ECO 231-2.
   Courses outside the Department
   CSC 102, ENG 268, MAT 107-8
   (3 of the above courses (9 s.h.) satisfy the general education requirements, and so are not included in the 36 s.h. department core requirements.)
   Students are expected on enrollment to have a knowledge of finite mathematics, i.e., algebra, trigonometry, and geometry.
4. Area of concentration 24 s.h.
   24 s.h. must be chosen in one of the department's areas of concentration, including a senior seminar in that area. (Courses in the department may not exceed 63 s.h.)
5. Electives 18 s.h.

BACHELOR OF ARTS—ECONOMICS

1. General Requirements 44 s.h.
   See page 60
2. Foreign Language Requirement 6 s.h.
3. Social Science Core 21 s.h.
4. Economics Concentration Requirement 36 s.h.
   ECO 231-2, ECO 340, MAT 107-8, ECO 335, ECO 351-2
   Additional Departmental Courses
5. Electives (6 s.h. of electives may be economics courses) 31 s.h.

COURSE DESCRIPTIONS

ACCOUNTING

Symbol: BAC

The objective of the accounting concentration is to prepare students for accounting careers in business, for the CPA examination, and for the private practice of accounting.

201 Principles of Accounting I (3) Introduction to financial accounting. A conceptual approach to recording, summarizing, presentation and valuation of the financial affairs of a business firm.

202 Principles of Accounting II (3) Introduction to management accounting. Accumulating, processing and interpretation of financial data as an input for managerial decisions of a business firm. PREREQ: BAC 201.

301 Intermediate Accounting I (3) Analysis and evaluation of assets, liability, and capital account. Problems of income measurement and recognition. PREREQ: BAC 202.

302 Intermediate Accounting II (3) Continuation of BAC 301. PREREQ: BAC 301.

303 Cost Accounting I (3) Techniques of product unit cost determination and uses of cost data in managerial decisions. PREREQ: BAC 202.

304 Cost Accounting II (3) Continuation of BAC 303. PREREQ: BAC 303.

401 Auditing (3) Introduction to auditing as a tool for verification of the fair presentation of financial statements. PREREQ: BAC 302.

403 Federal Taxation (3) A study of individual and federal income taxes, with some business application. Emphasis on tax planning for minimization of tax liability. PREREQ: BAC 202.

405 Advanced Accounting (3) In depth study of business combinations and consolidations, government accounting and other specialized topics. PREREQ: BAC 302.

410 Independent Studies in Accounting (1 to 3) Special research projects, reports, readings in accounting. Open to seniors only. PREREQ: instructor's approval.

ECONOMICS
Symbol: ECO

The objective of the economics concentration is to develop an understanding of economic theory rather than career preparation (other than teaching economics, or as a professional economist in government, business or private consultation). Economics has many useful career applications. The department coordinates its economics courses with the Department of History (such as HIS 310, 312, 315, 317, and 363, and the Department of Geography such as GEO 203, 213, 214, 216, 313, and 414) which courses may be considered economics courses under advisement.

201 Principles of Economics—Survey (3) Basic principles underlying production and consumption activities in our modified capitalistic economic system, from the aggregate as well as individual and sectoral standpoints. Issues include competition, unemployment, inflation, economic growth, and alternative economic systems.

231 Principles of Economics I (Micro) (3) Principles underlying use and allocation of scarce productive resources. Consumption and production activities. Value, price, and income distribution. Considerations of economic efficiency and welfare.

232 Principles of Economics II (Macro) (3) National income and its measurement. The determination of price levels, output, and employment. Money and credit, expenditures, and economic stability. Government fiscal and monetary policy.

333 Consumer Economics (3) (Not to be offered 1977-9) Major kinds of economic decisions required of consumers; an evaluation of the social and economic consequences of those decisions.

334 Labor Economics (3) Objectives sought and policies followed by labor and management in modern industrial relations in the United States. Collective bargaining processes and the role of government. PREREQ: ECO 232.

335 Money and Banking (3) A survey of money, credit, and prices, emphasizing their effects on economic stability. The Federal Reserve System and its effect on credit control. PREREQ: ECO 232.

336 Regulation of Competition (3) (Not to be offered 1977-8; to be offered 1978-9) Background and development of public policies which directly modify the free enterprise economy of the United States. Evaluation of policies which change the nature and extent of competition. PREREQ: ECO 231.

337 Economic Growth and Development (3) (To be offered 1977-8; not to be offered 1978-9) A survey and critical evaluation of alternative theories of capitalist economic development. Analysis and comparison of alternative public policies applicable to underdeveloped countries and regions. PREREQ: Junior standing.

338 International Economics (3) (Not to be offered 1977-8) A descriptive, analytical examination of international trade, financial, and other economic relationships. The effects of public policies on these relationships. PREREQ: ECO 231 and 232.

340 Intermediate Microeconomics (3) (not to be offered 1977-8; to be offered 1978-9) A continuation and extension of the price-system analysis in ECO 231. Emphasis on the need for efficiency in the economy's use of scarce productive resources. PREREQ: ECO 231.

341 Public Finance (3) (To be offered 1977-78; not to be offered 1978-9) Government's influence on stability of national income. Nature of taxes and expenditures at the various levels of government and their effect on the allocation of resources and the distribution of income. PREREQ: ECO 232.

343 Comparative Economic Systems (3) (To be offered 1977-8; not to be offered 1978-9) Basic ideas and economic institutions of socialism, communism, and capitalism in the twentieth century; problems created by the emergence of competing systems. PREREQ: ECO 231 and 232.

345 History of Economic Thought (3) (To be offered 1977-8; not to be offered 1978-9) Origins of economic thought and comparison of the major schools of economic doctrine. Current economic and socio-political factors. PREREQ: ECO 231 and 232.

346 Economy of Soviet Russia; Organization and Growth (3) (Not to be offered 1977-9) Russian economic growth prior to 1917; economic change and growth under the Soviet system. Workers' control, planning, pricing, resource allocation, and controls. An assessment of the economy's achievements, shortcomings, and prospects. PREREQ: Junior standing.

347 Managerial Economics (3) A course which seeks to develop managerial judgment. The premise is that technical application, to be successful, must proceed from economic feasibility. One plan is weighed against another in terms of comparative costs and revenues, return on investment, plant-replacement problems, obsolescence, and depreciation. PREREQ: ECO 231 and 232.

348 Intermediate Macroeconomics (3) Introduction to the theory of income, employment, and growth. Provides the tools of analysis necessary for dealing with aggregate economic problems. PREREQ: ECO 232.

349 Economics of Poverty (3) (Not to be offered 1977-9) Incidence, causes, and consequences of poverty in the United States. Economic theory, history, and statistics applied to analysis of poverty-reduction measures. PREREQ: Junior standing.

350 Urban Economics (3) (Not to be offered 1977-9) Economic aspects of such urban problems as poverty, housing, taxation, income distribution, and discrimination. Analysis of economic aspects of various proposed remedies, including urban renewal, family allowances, cooperatives, and others. PREREQ: Junior standing.

351 Quantitative Business Analysis I (3) Considers the fundamental ideas of statistical theory that are appropriate for solving problems in the fields of business and economics. Analyzes the methods by which business and economic decisions can be made when the information available to the decision-maker is incomplete and when there exists uncertainty concerning the outcomes of the decisions. Topics include: descriptive statistics, probability theory, sampling and estimation, hypothesis testing. PREREQ: MAT 108.

352 Quantitative Business Analysis II (3) Continuation of Eco 351. Topics include hypothesis testing, simple multiple regression analysis, and Bayesian inference. PREREQ: ECO 351.

354 Sampling Theory (3) Study of process of sample surveying, designing experiments in stratefied, cluster, ratio, and multi-state sampling. PREREQ: ECO 351.

400 Senior Seminar in Economics (3) Research in economics. Emphasis on methodology, bibliography, and oral and written presentation. Research paper must meet departmental requirements. PREREQ: ECO 340.

401 Introduction to Econometrics (3) (To be offered 1977-8; not to be offered 1978-9) Statistical and mathematical techniques applied to economic situations. Use of empirical data in economic analysis. PREREQ: ECO 352, ECO 231 and 232.

410 Independent Studies in Economics (1 to 3) Special research projects, reports, readings in economics. Open to seniors only. PREREQ: instructor's approval.

FINANCE
Symbol: BFN

325 Corporation Finance (3) The organization and financing of the modern corporation. Promotion, capitalization, short-term financing, capital budgeting, distribution of earnings, expansion, consolidation, failure, and reorganization. PREREQ: ECO 231.

344 Investments (3) Problems and procedures of investment management; types of investment risks; security analysis; investment problems of the individual as well as the corporation. PREREQ: BAD 325.

370 Problems in Financial Management (3) Case problems in corporate financial management. Includes cases on management of current assets, obtaining short term loans, raising long term capital, capital budgeting, and dividend policy. PREREQ: BAD 325.

LAW
Symbol: BLA

The objective of teaching law in the Department is to give every business student a basic knowledge of the American legal system, and such additional specialized legal knowledge as needed in a planned business career.

301 American Legal System (3) The nature of law, the judicial system, civil procedure, crimes, torts, contracts, and agency, from a business viewpoint.

302 Special Subjects in Business Law (3) A survey of legal subjects of practical utility in business: partnerships, corporations, real and personal property, sales, negotiable instruments, etc.

303 Legal Problems in Business (3) Special legal problems in business will be considered at length, such as consumer credit regulation, insurance, personal law relating to decedent's estates and social security, preparation for the CPA examination, etc. This course may be taken more than once (but not more than three times) for credit if the subject matter of the course is not duplicated.

MANAGEMENT
Symbol: BAD

The objective of the management concentration is not to prepare students for a particular occupational specialty, such as accounting, or law. Graduates in management cannot expect to be employed as "managers." The management concentration seeks to make students knowledgeable about the practice and theory of management. Such a knowledge will enhance effective performance in any career, and will enable one to be an effective manager in an organization. Since there is no one accepted school of management theory, the concentration relates various schools of management thought so that the graduate can effectively apply management theory to business problem solving. Both the qualitative and the behavioral aspects of management science are taught.

101 Introduction to Business (3) A descriptive survey of the role and function of American business, the elements of business operations and the tasks and structures of business organizations, also of the purpose and impact of government regulations and the social responsibility of business. Intended to enable business students to gain orientation for their business studies and for non-business students who want to understand the American business system.

201 Business Organization and Management (3) Study of the history, theory, principles and functions of the business organization and its effective management. Decisions and problems attending the principle management functions: planning, organizing, staffing, directing and controlling.

302 Personnel Administration (3) The personnel system in an organization: policy, employment, training, job evaluation, wage and salary administration, benefits, performance standards and evaluation, etc. Personnel responsibility of line managers. PREREQ: BAD 201 or consent of instructor.

323 Planning and Control (3) A study of the budgeting process of planning and controlling. Includes forecasting and the means of measurement of the flow of expenses for the purpose of establishing sound conditions of operation and profitability. PREREQ: ECO 352, BAD 201.

324 Quality Control (3) Control techniques in industrial production, inspection, and experimentation. Intensive study of the SHEWHART control charts and acceptance sampling by attributes and variables. PREREQ: MAT 108, BAD 201.

326 Production Management (3) Plant location, design, and construction; internal organization for operations, production control, stores control, routing of materials, job analysis, and time study; wage systems, subdivision of executive responsibilities and duties; methods of coordination and planning. PREREQ: BAD 201.

400 Senior Seminar in Management (3) Research in management. Emphasis on integrating and reinforcing principles studied in earlier courses. Research paper must meet departmental requirements. PREREQ: BAD 401.

401 Industrial Organization and Management (3) Principles and theory involved in operating a modern plant; problems of organization, location, layout, equipment, standards, and control of operations. PREREQ: BAD 302.

402 Organization Theory and Behavior (3) Study of organizations in terms of goals, structure, behavior and environment. The organization is viewed as a dynamic process in interaction with its environment to accomplish its goals. PREREQ: BAD 201.

405 Business Policy (3) Case study of policy making and and administration from a general management point of view. Emphasis is on problem analysis, the decision making process, administration and control, and continuous reappraisal of policies and objectives. PREREQ: BAD 402.

406 Introduction to Operations Research (3) (Not to be offered 1977-9.) A quantitative and qualitative presentation of problem solving with model building. Examples from economics, business and the behavioral sciences are used to guide students through formulation of problems to implementing solutions. PREREQ: ECO 352.

407 Budgeting and Systems (3) Budgeting and systems as aids in coordinating and directing business operation, PREREQ: BAC 202, ECO 232.

408 Contemporary Problems in Business Behavior (3) An independent analysis and discussion of ethical problems usually confronted in business, such as obedience to illegal or immoral orders of superiors; exorbitant or excessive pricing; deceptive trade practices; bribery or undue influence on government officials; harassment of business critics or competitors; knowing underpayment of taxes; favoritism of customers; abuse of expense accounts; fidelity to company and stockholders; kickbacks and accepting gifts from suppliers; industrial espionage, bugging, etc.; and dishonest or misleading financial reporting. The work of business critics such as Ralph Nader will be treated. Open to non-majors.

410 Independent Studies in Management (1 to 3) Special research projects, reports, readings in management. Open to seniors only. PREREQ: instructor's approval.

MARKETING
Symbol: BMK

The objective of the marketing concentration is to prepare students to assume positions primarily in the areas of marketing research, product development, advertising, sales, physical distribution, and pricing in both the private and public sectors.

221 Principles of Marketing (3) The consumer market, product planning, merchandising and distribution, pricing, and market research. PREREQ: ECO 231.

320 Managing Sales (3) Source, technique, and theories applied to problems encountered in managing a sales force in the areas of administration, policy, organizational structure, personnel selection and evaluation, sales training, compensation, forecasting, establishing territories and quota, and sales analysis. Emphasis on case studies. PREREQ: BMK 221.

321 Salesmanship (3) Analysis of the selling process applied to sales calls and sales strategies, communication, persuasion, motivation, ethics, interpersonal relationships, negotiations and professionalism. Emphasis on case studies. PREREQ: BMK 221.

322 Advertising and Sales Promotion (3) Roles of advertising and promotion in wholesale and retail marketing. Current campaigns are studied. PREREQ: BMK 221.

327 Marketing Management (3) Study of policy decision-making. Organization and analysis of marketing opportunities; policy decisions regarding product, price, marketing channels, physical distribution, advertising, and sales; marketing models and systems. PREREQ: BMK 221.

328 Marketing Channels (3) Distribution strategy; efficient planning of space, time, and distribution costs to meet consumer demand; alternatives in channel structure, policies, management, and leadership; methods for improving channel performance; channel strategy in the future. PREREQ: BMK 221.

400 Senior Seminar in Marketing (3) Research in marketing. Emphasis on integrating and reinforcing principles studied in earlier courses. Research paper must meet departmental requirements. PREREQ: Senior standing or instructor's permission.

403 Consumer Behavior (3) Foundations of consumer behavior. Market structure and consumer behavior; purchase strategy and tactics; determinants and patterns of consumer behavior. An integrated theory of consumer behavior is sought. PREREQ: BMK 221.

404 International Marketing (3) Historical and theoretical background of foreign trade; world marketing environment; world market patterns; marketing organization in its international setting; international marketing management. PREREQ: BMK 221.

408 Marketing Research (3) Systematic definition of marketing problems; strategies for data collection; model building; interpretation of results to improve marketing decision-making and control. PREREQ: BMK 221, ECO 351 and 352.

410 Independent Studies in Marketing (1 to 3) Special research projects, reports, readings in marketing. Open to seniors only. PREREQ: instructor's approval.

Chemistry

Marc L. Durand,
Chairperson

PROFESSORS: Bravo, Durand, Foery, Medeiros, Reynolds, Rudnick, Torop
ASSOCIATE PROFESSORS: Williams, Mangravite
ASSISTANT PROFESSORS: Eichelberger, Magnuson, Witonsky

The Department of Chemistry offers five undergraduate degree programs:

(1) The B.S. in Chemistry program enables the student to receive basic preparation required for the career of his or her choice. Such choices could be college and university teaching positions as professional chemists, research work, and related work in industry and government. In all cases, the program will prepare the student for graduate study in the field of chemistry, where the acceptance rate at major universities is nearly 100% for those applying.

(2) The B.S. in Chemistry-Biology is an innovative interdisciplinary program operated with the cooperation of the Department of Biology. In addition to providing the core courses required for admission to schools of medicine, dentistry, and veterinary medicine, the program also enables the student to pursue a career in marine biology, biochemistry, and environmental chemistry.

(3) The B.S. in Chemistry-Geology is the newest interdisciplinary program. The Department of Earth Sciences cooperates in its implementation; the student is prepared for a career in either chemistry, geology, or geochemistry. In addition, the student is prepared for graduate work in the burgeoning field of solid state or materials sciences.

(4) The B.S. in Education in chemistry program prepares the student for a career in teaching chemistry in the secondary schools. The program enables the student to gain experience in the major branches of chemistry so that, with proper selection of electives, graduate work in either straight chemistry or chemical education can be pursued. Sufficient flexibility is available so that the student can also become certified in general science by electing appropriate courses.

(5) B.S. in Clinical Chemistry—a new program which will train students interested in working in clinical laboratories. A one-semester internship in an "approved" clinical laboratory is a mandatory part of this program. This is the first such program approved in the Commonwealth of Pennsylvania.

The Department of Chemistry is accredited by the American Chemical Society, which provides its professional certification to graduates of the B.S. in Chemistry program.

Internship Program

Although internships are not a mandatory part of chemistry programs, they are available to majors on a selective basis. The student receives a varying amount of credit based on the number of hours he or she spends in the work situation and on the volume of academic work necessary during the internship. The credit varies from three to 15 hours per semester. For each full workday per week, three credits per semester are allowed.

Pre-Professional Program

The program consists of a rigorous course in study in the Chemistry-Biology dual major curriculum specifically designed for pre-professional students and it includes personal guidance from the beginning of the freshman year. A pre-professional committee, composed of two members from the Biology and Chemistry departments and the Dean of the School of Sciences and Mathematics, advises the students and writes all recommendations.

Because of the competition for medical school admission, planning for a medical career should be undertaken only by students who are highly motivated toward medicine and who are willing to pursue an arduous academic program in order to qualify for medical school acceptance. Each Pre-Med student should have an advisor who is a member of the college Pre-Professional Committee; the committee writes all official pre-professional recommendations for students at the college.

CHEMISTRY CORE COMMON TO ALL CHEMISTRY PROGRAMS

General Chemistry I-II (CHE 103-104)
Experimental General Chemistry I-II (CHL 103-104)
Calculus I-II MAT 141-142
Physics I-II (PHY 101-102)

BACHELOR OF SCIENCE—CHEMISTRY

Along with meeting the General Requirements and the Chemistry Core, the student pursuing the Bachelor of Science in Chemistry must take the courses below:

Chemistry Concentration Requirements
CHE 231, 232-233, 321, 341, 342, 401, 411, 471, 491
CHL 237, 238, 321, 341, 342, 471
In addition 6 credits of Chemistry electives must be taken.
Related Courses
Foreign Language (6 s.h.)
German required unless the 101-2 level has been achieved, when German through the Intermediate II level or French or Russian at the 101-2 level may be substituted.
Introduction to Computer Science
One elective in mathematics or computer science

BACHELOR OF SCIENCE—CHEMISTRY-BIOLOGY

Concentration Requirements for this program are:
CHE 231, 232, 341 or 345, 491
CHL 237, 341
BIO 110, 330, 361
Concentration electives totaling 16 credits.
Must be selected on advisement from upper division chemistry or biology courses.
Related Courses
MAT 121, CSC 101

BACHELOR OF SCIENCE—CHEMISTRY-GEOLOGY

Concentration Requirements for this program are:
CHE 321, 341 or 345, 411
CHL 321, 341
ESS 201, 211, 302, 305, 311, 321
In addition 8 credits in chemistry and 8 credits in earth science electives should be taken.
Related Courses
One course in computer science or statistics

B.S. IN EDUCATION—CHEMISTRY

In addition to meeting the General Requirements, the Chemistry Core shown above, and the Professional Education Requirements shown on page 194, the major in this program takes the following:
CHE 231, 232, 321, 341 or 345, 401, 411 or 471, 491
CHL 237, 321, 341
CSC 101, and PSY 100
Eight credits of science electives are required.

BACHELOR OF SCIENCE IN CLINICAL CHEMISTRY

In addition to the general education and chemistry core requirements, a student pursuing the bachelor of science in clinical chemistry must take the following courses:
CHE: 231, 232, 321, 341 or 345, 381, 401, 471, 481, 482, 495
CHL: 237, 321, 341 or 345, 381, 471
BIO: 110, 209, 361
MAT: 121; CSC 101

COURSE DESCRIPTIONS

Symbol: CHE
Symbol for Chemistry Labs: CHL

100 Chemistry and Man (3) Fundamentals of inorganic, organic, and biological chemistry as applied to the contemporary problems of mankind. A terminal course for non-science majors.

CHL 100 Basic Experimental Chemistry (1) Selected laboratory exercises illustrating fundamentals of inorganic, organic, and biological chemistry. For non-majors.

101 Chemistry for Nurses (4) Topics in inorganic, organic, and biological chemistry of medical and physiological significance. Standard laboratory experiments and clinical techniques. (3 hours lecture; 2 hours lab). For diploma nurses only.

103-104 General Chemistry I-II (3) (3) Basic laws and theories of chemistry including atomic structure, chemical bonding, oxidation-reduction, solutions, and ionic equilibria. Correlations of chemical principles and their application to modern descriptive chemistry. 103 must precede 104. Labs: CHL 103-104.

CHL 103-104 Experimental General Chemistry I-II (2) (2) Basic laboratory studies in college chemistry utilizing the quantitative approach. Semi-micro qualitative analysis and inorganic preparations. CONCURRENT OR PREREQ: CHE 103-104 or 106-107. CHL 103 must precede CHL 104. (1 hour recitation precedes 3 hours lab.)

111 Chemistry—"What People Eat" (3) A one semester course using analysis of the student's actual diet as a point of departure for the study of general chemistry for students with little or no background in science. A TERMINAL COURSE FOR NON-SCIENCE MAJORS ONLY.

230 Introduction to Organic and Biological Chemistry (3) A terminal course in fundamentals of organic chemistry. Structural theory of organic molecules; organic synthesis; and biological applications. Lab CHL 230. PREREQ: CHL 104.

CHL 230 Basic Experimental Organic and Biological Chemistry (2) Fundamental laboratory techniques of organic chemistry and their application to organic synthesis. CONCURRENT OR PREREQ: CHE 230.

231-232-233 Organic Chemistry I-II-III (4) (3) (3) A comprehensive study of the structure and reactions of organic molecules. 231 must precede 232 which must precede 233. Lab: CHL 237-238. PREREQ: CHE 104.

237-238 Experimental Organic Chemistry I-II (2) (2) Basic laboratory skills in organic chemistry including classical as well as instrumental techniques. Organic synthesis

and modern spectrophotometric methods of identification. CONCURRENT OR PREREQ: CHE 232-233. CHL 237 must precede CHL 238.

311 Geochemistry (3) (Also ESS 311) The chemistry of the earth and its relation to geologic processes. (2 hours lecture; 2 hours lab) PREREQ: CHE 104, ESS 201.

321 Analytical Chemistry 1 (2) Fundamental principles of analytical chemistry. Theory of gravimetric and volumetric methods of analysis. Lab: CHL 321, PREREQ: CHE 104.

CHL 321 Analytical Chemistry I Laboratory (3) Practical experience in modern techniques of chemical analysis with emphasis on volumetric and gravimetric methods. CONCURRENT OR PREREQ: CHE 321.

341-342-343 Physical Chemistry I-II-III (3) (3) (3) The mathematical laws and theories of chemistry including thermodynamics, reaction kinetics, quantum and statistical mechanics, theory of chemical bonding and molecular structure. 341 must precede 342 which must precede 343. Lab: CHL 341-342. PREREQ: CHL 104, PHY 102, MAT 142.

CHL 341-342 Experimental Physical Chemistry I-II (2) (2) Laboratory exercises illustrating principles of thermodynamics, kinetics, and quantum mechanics. CONCURRENT OR PREREQ: CHE 341-342. CHL 341 must precede CHL 342.

345 Fundamentals of Physical Chemistry (3) Basic concepts and laws of thermodynamics, reaction kinetics, and solution equilibria. Other topics commensurate with interest and background of students. Lab: CHL 345. PREREQ: CHE 232, MAT 132 or MAT 142. General Physics desirable but not required.

CHL 345 Basic Experimental Physical Chemistry (2) Experiments illustrating the laws of physical chemistry. Precision measurements and the use of modern instrumentation. CONCURRENT OR PREREQ: CHE 345.

371 Forensic Chemistry (3) Introduction to criminalistics (chemical forensic analytical techniques) with the role, functions, operations and organization of a scientific police laboratory.

CHL 371 Forensic Chemistry Lab (2) Identification and comparison of trace evidence utilizing modern instruments and classical wet methods of chemical analysis.

381 Clinical Chemistry (3) Analysis of biological fluids. Clinical significance of enzyme, electrolyte, protein, and carbohydrate analysis. Requires permission of instructor or preparation in organic chemistry and quantitative analysis. PREREQ or CONCURRENT: CHE 471. CONCURRENT: CHL 381.

CHL 381 Clinical Chemistry Laboratory (2) Lab for 381. Practical experience in analysis of biological fluids for diagnostic parameters. Nature of biological sampling, sample preservation, methodology, statistics, quality control. PREREQ or CONCURRENT: CHE 381, CHE 471, CHL 471.

401 History and Literature of Chemistry (2) Historical background of chemistry; survey of literature of chemistry; instruction in the use of modern chemical library. PREREQ: CHE 231.

403 Chemistry of the Environment (3) The chemistry of the atmosphere, hydrosphere, and biosphere; man's impact upon these areas. PREREQ: CHE 104.

404 Foundations of Nutrition (3) Proteins, lipids, fats, vitamins, and minerals and their role in normal metabolism; nutrition and disease; metabolism and biochemical individuality; cultural and political aspects of nutrition. PREREQ: CHE 104 or permission of instructor.

408 Industrial Pollution (3) Applications of elementary chemical engineering to the industrial complexities of the environmental processes. Emphasis on unit operations and unit processes applicable to pollution control and abatement. PREREQ: CHE 104.

410 Independent Studies in Chemistry (1-6)

411 Advanced Inorganic Chemistry (3) The application of modern chemical theories to inorganic substances and reactions: the chemistry of the short and long transition elements. PREREQ: CHE 104.

421 Selected Topics in Chemistry

424 Analytical Chemistry II (2) Basic principles of applied instrumental analysis. Special emphasis on the use of spectrophotometric and electroanalytical instrumentation. Lab: CHL 424. PREREQ: CHL 321.

CHL 424 Analytical Chemistry II Laboratory (2) Practical experience in the choice and application of instrumental methods of analysis to chemical systems. CONCURRENT OR PREREQ: CHE 424.

435 Qualitative Organic Analysis (4) A laboratory course in classical and instrumental methods for identification of organic compounds. PREREQ: CHE 232, 321. (2 hours lecture; 6 hours lab.)

436 Polymer Chemistry (3) Polymerization kinetics, rheology of polymer melts, crystallization paramenters, and monomer reactivity in copolymerization. PREREQ: CHE 232.

471 Fundamentals of Biochemistry (3) Structure and chemistry of proteins and nucleic acids; molecular biology, physio-chemical methods for biomacromolecules, enzymes, and the molecular basis for some physiological phenomena. Lab: CHL 471. PREREQ: CHE 345 or equivalent.

CHL 471 Experimental Biochemistry (2) Laboratory exercises in the fundamentals of biochemistry. CONCURRENT OR PREREQ: CHE 471.

480 Introduction to Chemical Research (3) Information retrieval and chemical research under direct supervision of a staff member. Must be taken for at least two semesters for a total of six credits. PREREQ: Senior standing and permission of department chairman.

481-482 Clinical Chemistry Seminar I-II (1) (1) Weekly lectures covering current aspects of laboratory procedures or interpretation of data in the clinical chemistry laboratory. Presentations may be by students and/or invited lecturers; may be given off-campus.

491-492 Seminar in Chemistry I-II (1) (1) Oral presentation of papers based upon laboratory or library research. PREREQ: permission of department chairman.

495 Clinical Chemistry Internship (15) A full-time, one semester work study appointment at a hospital, commercial, or industrial clinical chemistry laboratory supervised jointly by a practicing clinical chemist and a participating Chemistry Department faculty member.

Counselor Education—See Graduate Catalog
Educational Research—See Graduate Catalog

Criminal Justice

Janet C. Seidel
Chairperson

PROFESSOR: Francella
ASSOCIATE PROFESSOR: Barth
ASSISTANT PROFESSORS: Anderson, Seidel, Abrahamsen (part-time), Graybill (part-time), Pitt (part-time), Stone (part-time)

AN INTERDISCIPLINARY PROGRAM

In recent years the increasingly complex problem of crime in America has led to the heightened recognition of the need for professional and academic preparation for careers in criminal justice. In answer to this need the college introduced a program leading to the Bachelor of Science in criminal justice. The program has been carefully designed to provide the particular requirements of three categories of students: 1) those who wish to undertake a four-year program of study for careers in criminal justice, 2) in-service personnel who wish to strengthen their educational background and increase their professional competence, and 3) graduates of two year colleges who wish to transfer into the final two years of the curriculum.

The program is intended to provide the understanding and philosophy necessary for professional performance in the fields of criminal justice. Although the program is not designed to develop specialists in any one field of criminal justice, it does provide opportunity to concentrate in one of two areas through electives. The final two years of the criminal justice program are individualized with a heavy emphasis on internships with law enforcement agencies, correctional institutions, parole officials, and in the courts.

BACHELOR OF SCIENCE—CRIMINAL JUSTICE

1. General Requirements — 44 s.h.
   Health and Speech must be included
   See page 60
2. Specialized Preparation — 18 s.h.
   CRJ 100, 222, 252, 312, 401, 409

3. Field Placement 12 s.h.
   Must take place in the senior year and in intern situations related to the chosen area of concentration.
4. Topical Areas 39 s.h.

In scheduling topical areas undergraduates must take at least one course in each of the disciplines in the School of Social and Behavioral Science (government and politics; economics; geography and planning; history; anthropology, sociology; psychology) and SOC 338. This applies to students who enrolled in the Criminal Justice Program September, 1977 and later. Thirteen courses (including 338) are chosen under advisement. See Social Science Core, page 61.

5. Practice Theories 9 s.h.
   Choose either Area I or Area II
   Area I—Law Enforcement—CRJ 223, 224, 300
   Area II—Institution and Community Corrections—CRJ 428, 430, 442
6. Electives from criminal justice offerings, chosen under advisement 6 s.h.

COURSE DESCRIPTIONS

Symbol: CRJ

100 Foundations of Criminal Justice (3) Introduction to the criminal justice process in a democratic society, with emphasis on theoretical and historical development of law enforcement. A broad historical and philosophical foundation to the criminal justice discipline.

102 Criminal Process (3) The process between arrest and arraignment, with continued study through the correctional action. The various levels of criminal justice systems of organization are identified. Competency with the terminology is developed.

122 Introduction to the Basic Principles of Law Enforcement (3) Organization principles, applied to agencies operating within the criminal justice systems. Techniques, problems, methods of solutions, and operation and supervision. PREREQ: CRJ 100.

222 Criminal Justice Agencies and Their Community Responsibilities (3) Interrelationships between criminal justice agencies and the community; examination of the etiology of community distrust.

223 Fundamentals of Criminal Investigation I (3) Methods on investigation, investigators notebook, report writing; crime scene and care of evidence; interviews, informants, sources of information, missing persons, surveillance and undercover assignments. Application to arson, narcotics, sex offenses, larceny, burglary, robbery, and forgery.

224 Fundamentals of Criminal Investigation II (3) The specific offenses of homicide and criminal explosions. The investigator in court, identification and reproduction, specialized scientific methods and investigative operations such as arrests and apprehensions, raids, and searches of persons. PREREQ: CRJ 223.

240 Introduction to Criminal Justice Systems (3) Overview of the criminal justice systems. Focus is on police, probation and parole, courts and corrections.

252 Police Organization and Administration (3) Basic principles of administration with emphasis on their applicability to law enforcement, planning, organizing, directing and controlling. Personnel management policies.

312 Organized Crime (3) History and growth of organized crime in Europe and U.S., including current activities. Nonfiction accounts of participants. Study of organization and function of the law enforcement units designed to counter organized criminality.

368 Security (3) Overview of types of security requirements with attention to facility, campus, and open display procedures.

401 Criminal Law (3) Examination of the substantive legal provisions of criminal justice. Analysis of major crimes prohibited by our legal system. Social values within law are stressed.

409 Criminal Procedure and Evidence (3) Processes on the criminal justice systems; rules of evidence as utilized in the nation's judicial system; laws of arrest, search and seizure; the judicial process from offense to conviction.

428 Corrections (3) Survey of the history of corrections; contemporary practice; possible future trends.

430 Parole and Probation (3) History of parole and probation practices including the theoretical hypothesis of human behavior on which probation practices are based. Contemporary practices; possible future trends.

442 Interviewing the Offender (3) Students will learn in-depth interviewing, counseling, interrogating theory and techniques. Work will be spent in role playing and modeling behavior.

450 Major Case Investigations (3) A model major actual case is reconstructed and reenacted, with spectators, participants, victims, witnesses, enforcement agencies, and news media included. Interviews, collection and preservation of evidence, deductions, laboratory examinations, reports, and communications.

460 Legal Aspects of Drug Abuse (3) The course is designed to provide undergraduate students, persons with criminal justice occupations and others not legally trained with a basic understanding of criminal substantive and procedural law as it commonly exists and is applied in the drug law enforcement field.

462 Vice Control (3) Topics covered will include prostitution, pornography, gambling and bookmaking with historical perspectives, statutes and interpretations, and a comparison of illegal operations, enforcement techniques, and legalization efforts.

470 Interpersonal Relationships (3) This course is designed to aid students in recognizing changes which have affected them and led to the behavior they currently exhibit. They will recognize how self understanding leads to understanding relationships with others. The knowledge gained assists the students in relating to other persons in their personal, social, and vocational life space.

490 Field Placement and Integrated Seminar (12) Independent study based on visits to various levels of the criminal justice program: police clerks, police patrol, courts, correctional institutions, parole offices. The design of each program depends on the students previous experience. Seminars once weekly. For seniors only.

491 Field Placement Seminar (3) The student will conduct an intensive research paper in the area of concentration. The subject of the research will be approved by the instructor and periodic conferences will be scheduled.

496 Criminal Justice Planning (3) A systems analytic approach to understanding the structure and operation of the criminal justice systems. Problem identification, data collection, and analysis; evaluation techniques to meet established societal goals. Planning on a comprehensive, coordinated, and continuing basis is emphasized.

Dental Hygiene

Russell K. Rickert,
Coordinator

COOPERATIVE DEGREE PROGRAM FOR DENTAL HYGIENISTS AND DENTAL ASSISTANTS

The Degree of Bachelor of Science will be conferred upon dental hygienists and dental assistants meeting the following requirements:

1. Satisfactory completion of an approved dental hygiene program or dental assistant program of two years duration.
2. Satisfactory completion of 64 semester hours at West Chester State College, including:
   a) 44 s.h. general education requirements, or whatever other general education program is subsequently approved by the college.
   b) A minimum of six (6) coordinated courses approved by an advisor assigned by the program coordinator.

PERSONS INTERESTED IN PRACTICING DENTAL HYGIENE IN AN EDUCATIONAL INSTITUTION SETTING MAY HAVE THE OPTION OF OBTAINING COURSES IN PRACTICA IN EDUCATION. WITH RESPECT TO CERTIFICATION IN EDUCATION THE INDIVIDUAL MAY CONTACT THE DEAN OF EDUCATION.

Earth Sciences

George Reed,
Chairperson

PROFESSORS: Greenberg, Reed, Rickert, Widick
ASSOCIATE PROFESSORS: Casciato, Ehleiter, Harber
ASSISTANT PROFESSOR: Johnson

The Department of Earth Sciences offers two programs leading to the Bachelor of Science in Education. Both are designed to prepare teachers for secondary schools and are ideal for students who plan to teach the junior high school sciences.

The Department also offers a program leading to the Bachelor of Science in Earth Sciences. This is a Liberal Arts Program that prepares the student for industry and graduate studies.

In addition, an inter-departmental program which leads to the Bachelor of Science in chemistry-geology is available. See Department of Chemistry.

B.S. IN EDUCATION—EARTH AND SPACE SCIENCE

Specialized Preparation

CHE 103-104 and **either** CHL 103 or 104; PHY 103-104; CSC 141; MAT 105 (Students with a strong background in high school algebra and trigonometry may substitute MAT 131); MAT 131 or 132; ESS 201, ESS 211, ESS 111, ESS 455, ESS, 240, ESS 230, ESS 320; SCE 350; plus a total of at least seven credits from among the following; ESS 220, ESS 302, ESS 305, ESS 311, ESS 330, ESS 340, ESS 480, ESS 410, ESS 475, ESS 476, or any course from the Marine Science Consortium.

B.S. IN EDUCATION—GENERAL SCIENCE

Specialized Preparation

BIO 110 and one biology course other than BIO 100; CHE 103-104, CHL 103-104; PHY 103-104; ESS 111, ESS 201 and one of the following: ESS 230, ESS 240 or ESS 211; CSC 141; MAT 105 (Students with a strong background in high school algebra and trigonometry may substitute MAT 131), MAT 131 or 132; SCE 350.

Science Electives—9 or 10 s.h. from any courses in the science departments of the School of Sciences and Mathematics or the Marine Science Consortium.

B.S. IN EARTH SCIENCE

Specialized Preparation

BIO 110; CHE 103-104 and either CHL 103 or CHL 104; CSC 141; MAT 105 (students with a strong background in high school algebra and trigonometry take MAT 131); PHY 103-104; MAT 131 or 132; ESS 111, ESS 201, ESS 211, ESS 230, ESS 240, ESS 302, ESS 305, ESS 311, ESS 320, ESS 330, ESS 410, ESS 455, ESS 340, or ESS 475, ESS 476.

Science Electives—9 s.h. From any courses in the science departments of the School of Science and Mathematics or the Marine Science Consortium.

COURSE DESCRIPTIONS

Symbol: ESS unless otherwise shown.

SCE 310 Science for the Elementary Grades (3) A course to prepare the elementary teacher for teaching science. Selected units or problems which cut across various fields of science. Methods and processes of science and available resources. PREREQ: Completion of science and mathematics general education requirements.

SCE 350 Science Education in the Secondary School (3) Philosophy, objectives, and methods of teaching science. Practical experience provided. PREREQ: A major in liberal arts or secondary education (sciences).

101 Earth Science (3) The earth's composition and history; the processes that occur on and within the earth. 2 hours lecture, 2 hours lab.

111 General Astronomy (3) A descriptive course including the composition and evolution of solar and stellar systems. 2 hours lecture, 2 hours lab.

201 Physical Geology (3) The earth's composition (minerals and rocks) and earth processes (weathering, erosion, volcanism, and diastrophism).

ESL 201 Physical Geology Laboratory (1)

211 Historical Geology (3) The geologic history of the earth and the evidences for this history.

220 History of the Earth Sciences (3) An examination of the history of scientific thought and contributions in the area of the earth sciences. PREREQ: Completion of core requirements in science and mathematics.

230 Introduction to Oceanography (3) A survey of our present knowledge of the waters and floor of the oceans.

ESL 230 Introduction to Oceanography Laboratory (1)

240 Introduction to Meteorology (3) Principles governing the conditions of the earth's atmosphere; how these principles determine weather conditions.

302 Mineralogy (3) Physico-chemical principles used in the classification, identification, and origin of minerals. Field examination of local minerals. PREREQ: CHE 104, ESS 201.

305 Petrology (3) Principles of rock origin, identification and classification. Laboratory and field examination of rocks. PREREQ: ESS 302.

311 Geochemistry (3) The chemistry of the earth and its relation to geologic processes. PREREQ: CHE 104, ESS 201.

320 Structural Geology (3) Determination of the sequential development and the forces involved in the various structural features of the Earth. PREREQ: ESS 201, 211.

330 Introduction to Fossils (3) Identification and study of common fossils in order to understand their life process and geologic significance. PREREQ: one course in geology.

335 Stratigraphy (3) Description and evaluation of the physical, chemical, and biologic environment during the formation of stratified rock. PREREQ: ESS 201, 202.

337 Sedimentation (3) Introduction to the analysis of sedimentary rocks: Classification, erosion, transportation and deposition of stratified rock; Paleoenvironment interpretations. PREREQ: ESS 201 and ESS 211.

340 Geophysics (3) Gravitational, magnetic, seismic (refraction and reflection), and electrical properties of rocks and minerals in the earth. Physical principles of the earth; geophysics in relation to economic deposits. PREREQ: ESS 201, and 211, PHY 102 or 104.

408 Field Geology (3) Practical experience in the techniques and tools of the field geologist. PREREQ: ESS 201, 211, 305.

410 Independent Studies

455 Intermediate Astronomy (3) An analytical and qualitative analysis of selected astronomical phenomena. Such topics as: telescope optics (including photographic and photo-electric attachments), lunar and planetary orbits, stellar motions and magnitudes, galactic classifications and distances. 2 hours lecture, 2 hours lab.

475 Teaching in the Planetarium (3) Principles and use of the planetarium in teaching situations. Specific projects are assigned. PREREQ: ESS 111.

476 Planetarium Productions (3) The activities of this course will center around the production of a major planetarium production. PREREQ: ESS 111 and consent of instructor.

480 Special Problems (1 to 3) Reports on special topics and current developments in the earth and space sciences. PREREQ: consent of instructor.

490 Fundamentals of Soils (3) The properties of soils, edaphology, pedology: chemical, physical, and biological factors. Soil genesis and classification.

MARINE SCIENCE

The following courses are given at the Marine Science Consortium field stations in the summer only. For further information communicate with the Department of Earth Sciences.

MSC 110 Introduction to Oceanography (3) Physical, chemical, and biological aspects of the oceans. Emphasis on lab and at-sea assignments.

MSC 211 Field Methods in Oceanography (3) Field work on board small research vessels; use and application of standard oceanographic instruments and sampling devices. PREREQ: MSC 110 or consent of instructor.

MSC 221 Invertebrate Zoology (3) Development, reproduction, structure, function, and classification of selected marine organisms. Laboratory and field experience in collection, preservation, and classification. PREREQ: 1 year of biology or consent of instructor.

MSC 241 Marine Biology (3) Biology of marine plants and animals, field samplings, identification, and analysis. PREREQ: 1 year of biology or consent of instructor.

MSC 260 Marine Ecology (3) Relationship of marine plants and animals to physical, chemical, and biological factors; their zonation and communities. PREREQ: 1 year of biology or consent of instructor.

MSC 331 Chemical Oceanography (3) Oceanic chemical phenomena, sampling, and laboratory analysis techniques. PREREQ: MSC 110, one year of college chemistry, or consent of instructor.

MSC 342 Marine Botany (3) Marine and marine fringe plants of the Middle Atlantic coast. Techniques of collecting, identifying, and herbarium cataloging. PREREQ: a course in general biology or 1 semester of botany.

MSC 343 Ichthyology (3) Anatomy, physiology, and systematics of fish along our eastern seaboard. PREREQ: general biology or zoology or consent of instructor.

MSC 362 Marine Geology (3) Structural and sedimentary environment of the continental shelf, slopes, and ocean basins; genesis of the ocean basins. PREREQ: MSC 110 and ESS 201 or consent of instructor.

MSC 364 Physical Oceanography (3) Physical properties of the ocean; basic instrumentation in field work. PREREQ: MSC 110, PHY 103, 104, MAT 141 or consent of instructor.

MSC 420 Marine Micropaleontology (3) Paleontology of the Foraminifera (Sarcodina), Radiolaria, Diatoms, and Ostracoda. PREREQ: 1 year of geology or 1 course each in geology and biology or consent of instructor.

MSC 457 Marine Geophysics (3) Laboratory and field assignments employing a portable refraction seismograph, gravity meter, and magnetometer. PREREQ: MSC 110, ESS 201, 1 year of mathematics or consent of instructor.

MSC 458 Exploration Methods in Marine Geology (3) Geophysical and geological instruments and techniques used to study the topography and geology of the ocean bottom. PREREQ: ESS 201 and 1 year of mathematics or consent of instructor.

ECONOMICS—See Business and Economics

Elementary Education

James E. Habecker,
Chairperson

John H. Grafton,
Assistant Chairperson

PROFESSORS: King, Kulp, Peta, Ziegler
ASSOCIATE PROFESSORS: Brice, Chern, Dunlap, German, Good (Charlotte), Grasty, Habecker, Herres, Hoggard, Holman, Jacecko, Maxim, Petkofsky, Radich
ASSISTANT PROFESSORS: Gibson, Grafton, Hasselquist
INSTRUCTOR: Morgan

The elementary education curriculum is designed to provide a broad background of general education, an understanding of children, and the knowledge and skills needed to teach all aspects of the elementary school program. Upon satisfactory completion of the approved program, the student will qualify for a Pennsylvania Instructional I Teaching Certificate, valid for teaching for three years in kindergarten, and grades one through six.

B.S. IN EDUCATION

1. General Requirements: (44 s.h.) See page 60
   Literature, philosophy, art, and Introduction to Psychology are required.
2. Professional Education: (24 s.h.) EDF 100, EDP 250, EDM 300, EDP 351, EDE 411.
3. Specialized Preparation: (49 s.h.) EDE 200, EDE 251, EDE 310, EDE 311, EDE 312, EDE 332, EDE 352, EDE 401, EDE 406, HED 370, LIT 350, MAT 351* MUS 231, PED 200, SCE 310. A course in art.

   * Prerequisites are MAT 101, MAT 102 unless waived by examination

Note: The art course may credit to General Requirements. The course in physical education may be used to satisfy General Requirements.

4. Elective Area 11 s.h.

In order to meet the degree requirements, the student must choose from the following concentration areas (A-C) by selecting: (1) any one of the concentrations, or (2) any combination of courses from any combination of concentrations (unless he or she chooses one of the two certification areas). The teaching certificate is not affected by any chosen area except for the two which are certification programs—Outdoor Environmental Education and Special Education. Concentrations in Disciplines (B) and Concentrations in Specialized Programs (C) should be pursued under advisement.

ELECTIVE (CONCENTRATION) AREAS

A. ELEMENTARY EDUCATION
   Any combination of EDE courses not included in Specialized Preparation.

B. CONCENTRATION IN DISCIPLINES

Art	Geography	Music
Bilingual Education	Government and Politics	Psychology
Creative Arts	Health and Physical Education	Sciences
English	History	Social Sciences
Foreign Languages	Mathematics	

C. CONCENTRATION IN SPECIALIZED PROGRAMS

Early Childhood Education	Reading
Environmental (Outdoor) Education*	Special Education*
Language Arts	Urban Education

* This is a certification program.

CONCENTRATION IN DISCIPLINES

ART 18 s.h.
Required: (6 s.h.) ART 252, 266
Electives: (12 s.h.) in art, chosen under advisement

BILINGUAL EDUCATION (SPANISH) 18 s.h.
Required: (24 s.h.) SPA 207-208, 321, LIN 250, LAN 303, 305
Electives:
Residence in a Hispanic community (arranged by the Foreign Languages Department)
Additional Spanish under advisement until oral competency is certified by the Spanish faculty.
Introduction to English as a Second Language (ENG 350)

CREATIVE ARTS 13 s.h.
Required: (6 s.h.) THA 102, 306
Electives: (7 s.h.)
Courses in English or literature, speech, and theatre arts, selected under advisement.

ENGLISH 6 s.h.
Two courses in English or literature (6 s.h.)

FOREIGN LANGUAGES 21 s.h.
LIN 230, Spanish, French, or German to include 201-202, Advanced Composition, Advanced Oral, and Civilization, LAN 303
N.B. Study abroad is highly recommended.

GEOGRAPHY 15 s.h.
Required: (3 s.h.) GEO 202
Electives: (12 s.h.) Selected from geography offerings under advisement. Particularly suitable choices are GEO 201, 203, 204, 207, 208

GOVERNMENT AND POLITICS 12 s.h.
Required: (3 s.h.) PSC 100 or 101
Electives: (9 s.h.) chosen under advisement from PSC 215, 237, 240, 331, 332, 334, 335, 342, 349, 350, 351, 352, 369, and 384

HEALTH AND PHYSICAL EDUCATION 18 s.h.
Requirements: (15 s.h.) PED 451, 251, 354, 340, HED, 371, 377
Electives: (3 s.h.) selected under advisement from PED 140, 215, 361, 367, 370, HED 272, 376

HISTORY 15 s.h.
Required: (3 s.h.) HIS 212
Electives: (12 s.h.) selected under advisement.
3 s.h. from American History, 3 s.h. from European History, and 6 s.h. from World and Regional History.

MATHEMATICS 15 s.h.
Required: (12 s.h.) MAT 209, 212, 233, 352
Electives: (6 s.h.) chosen from MAT 121, 231, 340, 390, 391, 400, CSC 350 and others under advisement

MUSIC 23 s.h.
Music History: (6 s.h.) MUS 122-123
Theory of Music: (5 s.h.) MUS 112, 114
Professional Education: (6 s.h.) The Music Curriculum, K-6; MUS 331 (in place of MUS 231), 334
Applied Music (6 s.h.)
Performance Area (individual lessons) (3 s.h.); Voice (individual lessons) (1 s.h.); Musical Organization (1 s.h.); Elective (1-2 s.h.)

PSYCHOLOGY 12 s.h.
4 courses in psychology

SCIENCES 15-16 s.h.
Required (15-16 s.h.) selected under advisement from:
a. Biological Science (BIO 201, 271, 275, 277, 378)
b. Physical Science (ESS 101, 111, 201; SCI 251)

SOCIAL SCIENCES 6 s.h.
2 courses chosen from anthropology, sociology, or economics

CONCENTRATION IN SPECIALIZED PROGRAMS

EARLY CHILDHOOD EDUCATION 18 s.h.
Required: (12 s.h.) ECE 202, 203, 204, 205
Electives: (6 s.h.) chosen from:
a. **Creative Expression** (3 s.h.) ART 250, HED 276, MUS 232, PED 449
b. **Society and Culture** (3 s.h.) ANT 102; EDU 360, 361; SOC 332, 333, 335

ENVIRONMENTAL (OUTDOOR) EDUCATION 19-21 s.h.
See page 116 for details

LANGUAGE ARTS 11 s.h.
EDE 301, ENG 230, LIT 400 or SPH 405, EDE 423

READING 20 s.h.
Required: (20 s.h.) EDE 310, 311, 312, 422, EDR 321, LIT 350
Electives: (6 s.h.) chosen from: LIN 250, SPH 405, EDR 320, and others under advisement

SPECIAL EDUCATION 14 s.h.
For details see page 196

URBAN EDUCATION 15 s.h.
Required: (12 s.h.) SOC 100, 335, EDU 360, 361

COURSE DESCRIPTIONS

The following ECE and EDE courses are open to elementary education majors only, except by permission of department chairperson.

ECE 202 Preschool Learning Environment (3) Methods and materials for structuring the environment for the child aged 2-5 years will be studied. Readiness concepts in curricular areas such as language arts, math, science and social studies will be addressed.

ECE 203 Field Experience (2-5 Years) (2-3) Students will practice in early childhood settings with children aged 2-5 years.

ECE 204 Early Childhood Programs (3) Study and exposure to program models for the education of young children. Major trends in early childhood will be identified.

ECE 205 Administration and Supervision of Early Childhood Program (3) Study of principles of administration and supervision of early childhood programs for young children. This will include parent education and community relations.

EDE 200 Theory and Field Experiences in Elementary Education (3) Orientation to the curricula, processes, and structures of elementary education today. Field experiences related to course topics.

EDE 251 Child Development and Behavior (3) Emotional, social, mental, moral, physical, and self factors shaping human behavior, with emphasis on child and early adolescent development. Field observations and anecdotal record required. PREREQ: PSY 100.

EDE 310 Communication Skills in the Elementary School (3) Study of teaching the language skills in the elementary school: listening, speaking, and writing. Students also participate in a tutorial program in local schools. PREREQ: EDE 251.

EDE 311 Introduction to Reading Instruction (3) An exploratory course investigating the reading process, learning theory and its relation to reading, readiness for reading, historical scope of and various approaches to reading. PREREQ: EDE 251.

EDE 312 Reading Instruction and Practicum (6) Focus is on mastery of the teaching of reading. Different reading programs are examined and evaluated. The student learns how to sequence the instruction of reading. Tutoring individual children and small groups is integrated with the planning of lessons. The student also learns how to evaluate pupil performance in reading and how to plan for remediation. PREREQ: EDE 311.

EDE 332 Teaching Social Studies in the Elementary School (3) Methods of teaching social studies and geography in the elementary curriculum. Techniques, current research projects, reading materials, audio-visual aids, resource persons, and field trips as tools of learning. The organization, development, and use of resource units are stressed.

EDE 352 Self and Group Processes in the Classroom (3) Analysis of self processes influencing teacher-student classroom interactions. Role of needs, defenses, motives, emotions, and early learning experiences as they shape the prospective teacher's responses to elementary children in a series of field experiences. Application of social learning and interpersonal theory.

EDE 401 Creativity in the Classroom (3) Exploration of materials and processes of children's perceptions and behavior, aimed at encouraging the development of their critical and creative potentials.

EDE 406 Classroom Management (3) Detailed investigation into the elementary teacher's role in classroom management. Teacher influence, personality, and class interaction; class roles and expectation; seating plans; discipline; referral; the teacher's role in evaluating and identifying potential problems in children.

EDE 410 Independent Study (1-3) Special topics or projects initiated by the student which will enable her/him to do extensive and intensive study in an area of elementary education which will sharply increase her/his knowledge of elementary education. PREREQ: permission of department chairperson.

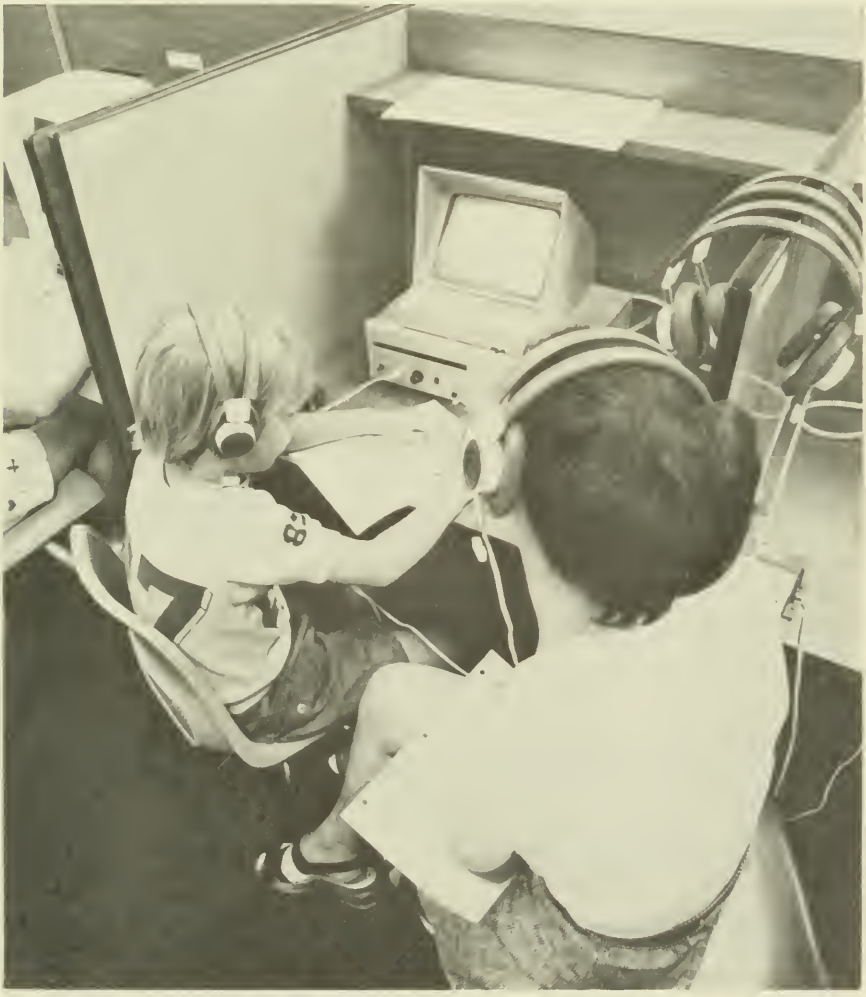
EDE 411 Student Teaching and Direction of Student Activities (Elementary Majors) Including Practicum (12) Observation and participation in teaching and all other activities related to the teacher's work in the elementary school. Students meet once each week in a practicum session. PREREQ: 96 semester hours including all professional education courses and all specialized-preparation courses.

EDE 412 Work-Study in the Elementary School (6) Limited practicum for pre-service teachers who have taken EDE 200, 251, 311, 312, 406. Students work for a full term in one school district under supervision. Six credits may be granted toward student teaching requirements (EDE 411). PREREQ: departmental approval.

EDE 421 Seminar in Elementary Education (3) An intensive study of some current, maior developments in elementary education. Topics announced in advance. PREREQ: Senior standing and instructor approval.

EDE 422 Seminar in Reading (2) Intensive study of some current major developments in reading related to elementary education. Topics announced in advance. PREREQ: instructor approval.

EDE 423 Seminar in Communication Skills (2) Intensive study of some current major developments in communication skills (language arts) related to elementary education. Topics announced in advance. PREREQ: instructor approval.



English

David E. McKenty,
Chairperson
William H. Henry, Jr.;
Assistant-Chairperson

PROFESSORS: Bailey, Berry, Brooks, Clokey, Falgie, Field, Garrett, Green, Haviland, Hayward, Henry, Kent, Kershner, McGrath, McKenty, Markow, Newman, Oldsey, Taylor, Weiss, West, Ziegler
ASSOCIATE PROFESSORS: Bosworth-Fling, Browne, Bruton, Corr, Fordyce, Gaunt, Hunsberger, Kelleher, Kelly, McCawley, Miller, Myrsiades, Page, Prater, Smith, Ward, Wise
ASSISTANT PROFESSORS: Boylan, Combs, Ford, Peich, Rimel, Thurbon
INSTRUCTOR: Rowe

The Department of English offers two degree programs: the Bachelor of Arts in Literature and, in cooperation with the School of Education, the Bachelor of Science in Education. Each program is planned in consultation with an advisor.

The Bachelor of Arts in Literature prepares the student for graduate studies, journalism, publishing, editing, public relations, advertising, and other specialized careers. The required courses provide a broad foundation in literature, an introduction to writing and the study of language, and an orientation in career planning and opportunities. The wide choice of electives permits the student to structure a program compatible with his/her particular career goals and interests.

The Bachelor of Science in Education prepares the student to teach English in the secondary schools of Pennsylvania under an Instructional Certificate. Before permission to student teach is granted, students in this program must (1) satisfy the prerequisites for student teaching listed on page 194 and (2) satisfy specific English Department requirements outlined in the *Handbook for English Majors*.

BACHELOR OF ARTS IN LITERATURE

128 Semester Hours

1.	General Requirements, see page 60	44 s.h.
2.	Arts and Letters Core Requirements, see page 61	15 s.h.
3.	Foreign Language Requirement, see page 61	3-12 s.h.
4.	Cognate Courses, one from History and one from Political Science	6 s.h.
5.	Departmental Requirements ENG 100—The English Major Program LIT 100—Practical Criticism ENG 230—Introduction to Linguistics LIT 260—Continental Literature I LIT 261—Continental Literature II LIT 230—English Literature I or one Group A course	36 s.h.

LIT 231—English Literature II or one Group B course
LIT 200—American Literature I or one Group C course in the appropriate period
LIT 201—American Literature II or one Group C course in the appropriate period
One course from Group D or E
One advanced writing course
LIT 400—Literature Seminar

6. Departmental Electives 15 s.h.
Selected under advisement from LIT groups A-E and approved English and Humanities courses. Consult **Handbook for English Majors.**

7. Free Electives 0-9 s.h.

BACHELOR OF SCIENCE IN EDUCATION—ENGLISH

130 Semester Hours

1. General Requirements, see page 60 44 s.h.
2. Arts and Letters Core Requirements, see page 61 15 s.h.
3. Cognate Courses, one from History and one from Political Science 6 s.h.
4. Professional Education Requirements, see page 194 29 s.h.
These include ENG 390—Teaching English in Secondary Schools
5. Departmental Requirements 30 s.h.
LIT 100—Practical Criticism
LIT 260—Continental Literature I
ENG 230—Introduction to Linguistics
ENG 331—Structure of Modern English
ENG 335—History of the English Language
LIT 200—American Literature I or LIT 201—American Literature II
LIT 230—English Literature I or LIT 231—English Literature II
One course from Group A, B, C, or D
One advanced writing course
LIT 400—Literature Seminar
6. Departmental Electives 6 s.h.
Selected under advisement from LIT groups A-E and approved English and Humanities courses. Consult **Handbook for English Majors.**

COURSE DESCRIPTIONS

ENGLISH

Symbol: ENG

000 Basic Writing (0) A basic course of study which emphasizes logical and rhetorical skills in paragraph development. Assignment to this course is on the basis of verbal SAT scores.

100 The English Major Program (3) Acquaints English majors with career planning and the great variety of careers open to them. Outside lecturers from many professions and organizations that offer English majors opportunities for employment.

120 Effective Writing I (3) An intensive course in writing which emphasizes skill in organization, sensitivity toward styles of writing and levels of language, and awareness of language as a way of expressing and communicating experience. Not open to English majors.

121 Effective Writing II (3) Explores writing as a problem-solving medium. Instructs in techniques of gathering, selecting, and evaluating materials and of drawing and presenting cogent conclusions. Not open to English majors.

122 Effective Writing II (3) An introduction to research techniques for Political Science majors, emphasizing problem formulation, descriptive and casual analysis, documentary research, questionnaire survey, statistical analysis and interview.

125 Writing for English and Communications Majors (3) A creative program of essay, conference, and discussion for literature and communications majors.

201 Advanced Writing (3) Frequent practice in expository, descriptive, narrative, and argumentative techniques, with emphasis on style. Writing is criticized and corrected in private sessions.

202-203 Creative Writing I-II (3) (3) Writing experience in the crafts of fiction, poetry, and drama.

230 (also LIN 230) Introduction to Linguistics (3) Basic concepts of language description, classification, change, reconstruction, dialectology, and sociolinguistics. (Prerequisite for all courses in English Language.)

260 Mass Media in Society (3) Introduction to theory and problems of mass media and their role in American culture.

261-262 Principles of Newspaper Production I-II (2) (2) A workshop course in newspaper production, including work on the student newspaper.

263-264 Principles of Yearbook Production I-II (2) (2) All phases of yearbook planning, writing, editing, production, and financing. Theory and practice for yearbook staff members and potential yearbook advisors.

265 News Reporting (3) Principles of news reporting and practice in gathering and writing news for all media. Research, writing, and the interview.

266 Writing for Magazines and Newspapers (3) Writing for publication. Developing ideas, gathering material, writing articles for both magazines and newspapers. Marketing methods for the freelancer.

267 History of Communications (3) History and development of newspapers, magazines, documentary films, radio, and television.

268 Business Communication (3) The nature of communication within organizations. Theoretical basis and practical application. PREREQ: ENG 120 or ENG 125.

275 Literary Editing and Publishing (3) Experience in publishing the student literary magazine **Daedalus:** editing, proofing, photographic selection and layout, printing.

276 News Editing (3) Basic principles of editing for newspapers and magazines: editing practices, critical analysis of newspaper and magazine articles, practical exercises in editing copy for print.

301 Poetry Workshop (3) The theory and practice of poetry; exploration of verse forms, prosody, metrics; practice in critical and interpretive analysis of poems written by fellow students and professional poets. The poem as a product of skilled craftsmanship.

302 Drama Workshop (3) Writing the play; possibilities and limitations of the stage. Attention to sets and costuming where relevant. Characterization by action and dialogue. Problems of establishing motivation. The play's totality in theme, character, and action. Informal readings of student work.

303 Short Story Workshop (3) Crafting the modern short story with reference to American and British models. The significance of setting, atmosphere, characterization, and theme. Discussion and some exploitation of experimental ideas in the genre.

304 Essay Workshop (3) Practice in writing the essay. Conventions and techniques of this literary form as it appears in commercial and quality magazines.

330 English Phonology (3) Phonemics and morphophonemics in English. Writing systems and phonemic-graphemic relationship in English. Historical development of English sounds. PREREQ: ENG 230.

331 Structure of Modern English (3) A detailed analysis of the modern descriptive approach to the study of English grammar and how it compares with the traditional approach. PREREQ: ENG 230.

335 History of the English Language (3) Review of the influences on the development of the English language. PREREQ: ENG 230.

339 History and Dialects of American English (3) Development of the English language in America since colonial settlement. American and British English. Pronunciation, vocabulary, and grammar of the regional and social dialects of American English. PREREQ: ENG 230.

340 Sociolinguistic Aspects of English (3) The study of language in its social context: the ethnography of communication; language and society, social classes, ethnic groups, politics, sex, and education. PREREQ: ENG 230.

350 Introduction to English as a Second Language (3) Exploration of the scope of the field, types of programs, general approaches to instruction.

390 Teaching English in Secondary Schools (3) Review of language-arts requirements in secondary schools. Special reference to grade-placement with adaptation of materials, appraisal of results, and development of programs of study. PREREQ: ENG 331, 335.

400 Writing Seminar (3) Discussion and development of major projects.

410 Independent Study (3)

490 Writing Seminar in the Novel I (3) A course in the writing and preparing of book-length manuscripts (novel, novella, "non-fictional" novel) with the intention of submission for publication. Also includes coverage of fictional aspects and techniques used in writing memoirs, biography, current history.

491 Writing Seminar in the Novel II (3) A continuation of ENG 490.

LITERATURE

Symbol: LIT

100 Practical Criticism (3) Study of and practice in the literary analysis of selected poetry, prose fiction, and drama.

101 Great American Writers (3) Major American writers from Franklin to Faulkner. Not open to English majors.

130 Great British Writers, Post Renaissance (3) Major British writers from Milton to the present. Not open to English majors.

160 General Literature I (3) Western literature from Homer through Shakespeare. Not open to English majors.

161 General Literature II (3) Western literature from Shakespeare to the present. Not open to English majors.

162 Fiction (3) Basic analysis of various forms of fiction: short story, novella, novel. Interpretation based on the relationship between form and content. Not open to English majors.

163 Drama (3) An introduction to drama, extending from the classical Greek tragedy to the Theater of the Absurd. Not open to English majors.

164 Poetry (3) Analytical readings within a broad spectrum of English and American poetry from Chaucer to the present. Not open to English majors.

166 Classical Theatre: The Humanities in Drama (3) Twelve European plays from the 17th, 18th, and 19th centuries to be read and discussed. The BBC Television productions of the play will be viewed in the classroom and on WHYY Channel 12. Not open to English majors.

200 American Literature I (3) A survey of representative American writers from Colonial times to 1860, including Bradstreet, Taylor, Franklin, Poe, Thoreau, Hawthorne, and Melville.

201 American Literature II (3) A survey of representative American writers from 1860 to the present, including Whitman, Twain, James, Crane, Eliot, Frost, Hemingway, and Faulkner.

202 Afro-American Literature I (3) Survey of Afro-American authors from the antebellum era through the first quarter of the 20th century. (Group C)

203 Afro-American Literature II (3) Continuation of LIT 202. Second quarter of the 20th century to the present. (Group C)

230 English Literature I (3) A survey of English literature from Anglo-Saxon writing through the 18th century.

231 English Literature II (3) A survey of English literature of the 19th and 20th centuries.

260 Continental Literature I (3) Literature of continental Europe from classical times through the Renaissance.

261 Continental Literature II (3) Literature of continental Europe from Neoclassicism to the present. (Group D)

262 Classical Literature in Translation (3) The growth and development of Classical literature with emphasis on the epic, the tragedy, the comedy, and the lyric poem. (Group D)

263 Bible as Literature (3) Books of the English Bible, especially the King James Version, as a part of English and American literature. (Group D)

264 Literature and Myth (3) Traditional, anthropological, and psychoanalytic interpretations of myth in literature. (Group D)

265 Literature and Psychology (3) An examination of the relationships between literature and psychology, with readings from drama (Shakespeare, Ibsen, Albee), poetry (Poe, Browning, Eliot), and fiction (Tolstoy, Joyce, Woolf, Mann, Kafka, Faulkner). (Group E)

266 Science Fiction (3) A critical study of the science fiction novel focusing on the works of contemporary writers such as C. S. Lewis, Asimov, Heinlein, Zelazny, Niven, Anthony, Herbert, LeGuin, and Delany. (Group E)

267 The Supernatural in Literature (3) A study of the representation in literature of supernatural influences displayed in the writings of Homer, Aeschylus, Vergil, Spenser, Shakespeare, Middleton, Ford, Greene, Blake, Keats, Poe, James, Wilde, and Synge. (Group E)

268 Love in Literature (3) The changing roles of the sexes as revealed in literature. Examination of Platonic, Courtly, and Romantic love. Outside speakers on related topics. (Group E)

269 The Literature of Roguery (3) A historical study of the rogue in fiction with emphasis on the satiric view of society. Among writers studied: Defoe, Thackeray, Donleavy, and Wolfe. (Group E)

270 Literature of the Cities (3) Covers a variety of responses of contemporary writers, artists, and planners to the rise of the modern city. (Group E)

271 Literature of the Left (3) A study of prominent leftist writers and their works, including Mayakovsky, Neruda, Aragon, Lorca, Ritsos, Brecht, Malraux, Orwell, and Sartre. (Group E)

272 New Fiction (3) Fiction published in the last ten years. (Group E)

274 Feminist Poetry (3) A study of poetry espousing the feminist cause and exploring the feminist response. Techniques and attitudes of such poets as Plath, Sexton, Rich, Morgan, Wakoski, and Kumin. (Group E)

290 Introduction to Film (3) A critical-analytical approach to world cinema covering film theory and the major film movements (American film, Soviet realism, German expressionism, Italian neorealism, and surrealism) from the beginning of the silent era through the development of sound up to 1959. (Group E)

291 The Contemporary Film (3) A critical-analytical approach to world cinema covering major film movements and theory since 1960. (The French New Wave, Bergman, Kurosawa, Cinema Nuovo, Eastern European film, and New American film). (Group E)

292 Avant-Garde Film (3) The function of cinema in contemporary society as a socio-cultural, economic, and political object, as seen through critical analysis of experimental and documentary films. (Group E)

295 Children's Literature (3) A critical study of literature for children, setting standards for evaluation and appreciation.

296 Adolescent Literature (3) A survey of literature written for readers of junior high and high school age. The primary aim is to find standards of literary evaluation for adolescent works.

297 Reading Interests of Secondary School Students (3) Interests and reading growth of junior and senior high school students.

300 Colonial and Revolutionary American Literature (3) Writers of Colonial and Revolutionary America. (Group C)

301 Folklore in America (3) A study of folklore in American life and literature, with emphasis on occupational, regional, and ethnic influences. (Group C)

302 Development of the American Novel (3) Beginnings of the American novel to Frank Norris. (Group C)

303 Introduction to Multi-Ethnic American Literature (3) American ethnic, racial, and national groups in American literature and the contributions of creative literary artists representing these cultures. (Group C)

304 American Jewish Novel (3) A study of major American Jewish novelists: Cahan, Singer, Roth, Potok, Bellow, Malamud, Wallant, and Wiesel. No knowledge of Yiddish or Hebrew necessary. (Group C)

305 Modern American Drama (3) American drama from the early 1900's to the present, with emphasis on the development of the American Theater as seen in such major dramatists as O'Neill, Odets, Wilder, Miller, Williams, and Albee. (Group C)

306 Modern American Novel (3) The novel in America from Dreiser to the present. (Group C)

307 Modern American Poetry (3) Major 20th-century American poets. (Group C)

308 American Women Writers (3) A portrait of the American woman: her social position, her attitudes toward sexuality. A re-evaluation of women writers in view of these observations: Olsen, Cather, Chopin, Oates, and others. (Group C)

330 Old Eglish Language and Literature (3) An introductory study of the language (450-1150 A.D.) through a reading of religious and secular poetry and prose. (Group A)

331 Middle English Language and Literature (3) An introductory study of the language (1150-1450 A.D.) through a reading of selected literary texts. (Group A)

332 English Drama to 1642 (3) English drama from the early liturgical tropes to 1642, exclusive of Shakespeare. (Group A)

333 Tudor Literature (3) Prose and poetry of the Tudor period. Thomas More to Edmund Spenser. (Group A)

334 Stuart Literature (3) Prose and poetry of the Stuart period. Jonson and Donne to Dryden. (Group A)

335 Shakespeare I (3) Selected comedies, histories, and tragedies. Literary historical background and Shakespeare's development as a dramatist. (Group A)

336 Shakespeare II (3) Similar to LIT 335 with a different choice of plays; either course may be taken first. (Group A)

337 Literature of the Enlightenment (3) A critical consideration of the 18th-century writers, exclusive of the dramatists. The struggle between tradition and revolt. (Group B)

338 Restoration and 18th Century Drama (3) The drama from the reopening of the theaters in 1660 to 1800. (Group B)

339 18th Century British Novel (3) The British novel from Defoe to Austen. (Group B)

340 The Romantic Movement (3) Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and critical doctrine. (Group B)

341 19th Century British Novel (3) The British novel from Austen to Hardy. (Group B)

342 Victorian Literature (3) Victorian thought and culture in poetry and non-fiction prose. (Group B)

343 Modern British Drama (3) British drama from Wilde to the present, with emphasis on the rebirth of the British drama and its major writers. (Group B)

344 Modern British Novel (3) The novel in England from Conrad to the present. (Group B)

345 Modern British Poetry (3) Major 20th-century British poets. (Group B)

360 Oriental Literature (3) A survey of the literature of both the Near and Far East from Classical times to the present. (Group D)

361 Modern Continental Drama (3) A consideration of the chief writers who influenced the modern drama: Ibsen, Strindberg, Chekhov, Hauptmann, Pirandello, Sartre, Brecht, and Ionesco. (Group D)

362 Modern Continental Fiction (3) Important modern European writers in translation: Flaubert, Dostoevsky, Unamuno, Gide, Mann, Kafka, Camus, Sartre, and Moravia. Their aesthetic and philosophical contributions to modern fiction. (Group D)

363 Modern Literature of Russia and Eastern Europe (3) A study of a selected number of modern works by Dostoevsky, Gogol, Bunin, Brecht, Kafka, Lukacs, Benjamin, which demonstrate the interrelationship of the national literatures of Eastern Europe and display common themes and styles. (Group D)

364 Modern Irish Literature (3) Major literary writers of Ireland from 1840 to the

present: George Moore, Synge, Yeats, Joyce, Shaw, O'Casey, Beckett, Behan, and Brian Moore. (Group B)

365 Short Story (3) An aesthetic approach to the short story. In depth analysis of the short story in terms of the relation between form and content. The short story in its total philosophical-historical context. (Group E)

366 Criticism (3) A study of the theories of classical antiquity, England, and the United States, with emphasis on the relevance of these theories to English and American literature of the moment. (Group E)

390 Comparative Cinema (3) A comparative approach to the study of film, which each semester focuses on a selected theme (myth and film, subversive film, Brechtian film), director (Pasolini, Bergman), or cinema group (Eastern European film, Oriental film). (Group E)

400 Literature Seminar (3) Topics announced annually. Required of English majors in the junior or senior year.
Topics previously offered:

- Doris Lessing
- Emerson
- Children's Novel
- Fantasy
- American-Jewish Novel
- Hawthorne
- Spenser-Milton
- Joyce-Beckett
- Ibsen-Chekov
- Hamlet
- Shaw
- Longer Prose Fiction
- Mark Twain
- The Devil
- Byron
- Colonial Literature
- Jane Austen
- Odysseus as a Modern Hero
- Whitman and Melville
- F. Scott Fitzgerald
- Satire and Irony
- Archetypes and Ethnic Stereotypes in American Literature

435 Chaucer (3) An interpretation of **Canterbury Tales** and **Troilus** and **Criseyde** (Group A)

437 Spenser (3) A study of **The Faerie Queene** and shorter poems. (Group A)

440 Milton (3) A survey of the major poetry and prose works. (Group A)

The English department accepts certain humanities courses as major electives. Consult the **Handbook for English Majors** for a list of approved humanities courses.

Environmental (Outdoor) Education

Certification Program

John Holingjak,
Coordinator

This interdisciplinary program enables teacher-education majors to secure certification to teach environmental (outdoor) education. The course sequences in the program are drawn from existing curricula in the natural sciences, social and behavioral sciences, and health and physical education and permit students to graduate with dual certification. That is, their teaching certificates will be valid for environmental education as well as for their major area of study. For the additional certification in environmental education, students are required to complete four core courses and two elective courses chosen from one of the following areas of concentration: natural sciences, recreation-centered, man-centered, or curriculum-centered. Students wishing to explore this program should consult with the coordinator of environmental education.

REQUIRED CORE COURSES

	Semester Hours
Conservation of Natural Resources (GEO 201)	3
Basic Ecology (BIO 201)*	4
Field Ecology and Natural History (BIO 272)*	3
Organization and Administration of Outdoor Education (EDO 420)	3
	13

ELECTIVES—two courses from one of these areas:

Group A—Natural Sciences
Field Botany (BIO 275)
Field Zoology (BIO 277)
Entomology (BIO 377)
Ornithology (BIO 378)
Earth Science (ESS 101)
General Astronomy (ESS 111)
Physical Geology (ESS 201)
Introduction to Oceanography ıphy (ESS 230)
Marine Ecology (MSC 260)

Group B—Man-Centered
Environmental Crises and Ethics (GEO 301)
Introduction to Anthropology: Cultural (ANT 102)
Human Paleontology (ANT 331)
Culture Change (ANT 333)
Urban and Regional Planning (GEO 414)
Introduction to Sociology (SOC 100)
Urban Sociology (SOC 336)
Urban Growth Dynamics (GEO 214)
Population Problems (GEO 313)

Group C—Recreation-Centered
Principles of Recreation (PED 250)
Camping and Outing (PED 370)

Group D—Curriculum-Centered
Conservation Education Curriculum (K-12) (EDO 405)

* Biology majors must substitute biology courses from Group A with approval of advisor

Supervised Camping Leadership (PED 467)
Arts and Crafts in Recreation (PED 367)
Methods in Conservation Education (EDO 410)
History of Conservation (EDO 415)
Independent Studies in Environmental Education (EDO 425)
Environmental (Outdoor) Education Workshop (EDO 411)

COURSE DESCRIPTIONS

Symbol: EDO

405 Conservation Education Curriculum (K-12) (3) Conservation education as it exists in the present school curriculum, and ways to integrate conservation into elementary and secondary school disciplines. Characteristics, interrelationships, and uses of our natural resources; problems and policies of industrial management in conservation as they are related to the school curriculum.

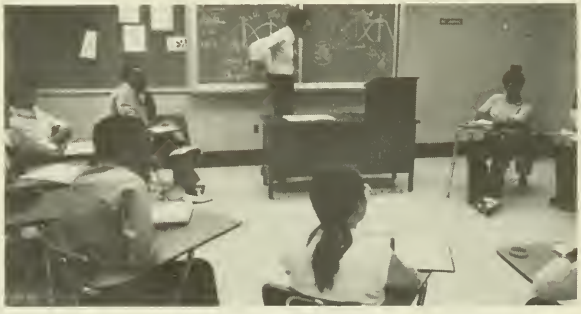
410 Methods in Conservation Education (3) Basic concepts and practices of conservation and outdoor education and their role in the school program.

415 History of Conservation (3) Development of the conservation movement in the U.S., with emphasis on the progressive adaptations of conservation to our changing social and economic order.

420 Organization and Administration of Outdoor Education (3) Basic concepts of outdoor education; the role of outdoor education in the school program; the initiation and administration of outdoor education.

425 Independent Studies in Environmental Education (3) Special research projects, reports, readings in conservation and outdoor education. Open to seniors only. PREREQ: permission of instructor.

Ethnic Studies



ADVISORY COMMITTEE: Andrew E. Dinniman, Jorge Escorcia, Bonita Freeman-Witthoft, Charles W Grassel, Jody M. Harris, Kostas Myrsiades, Katharine D Newman, Alfred D Roberts, Jeanette Sam, Irene G Shur, Philip D. Smith, Richard J Webster

The Ethnic Studies program gives greater insight into America's history:

the ways in which peoples from all over the world have interacted to form our present society.

The Institute for Ethnic Studies offers transcript recognition and a certificate to any student, regardless of area of specialization, who satisfactorily completes 18 semester hours of work in ethnic studies. At least one ethnic-oriented course is required in each of the following areas:

1. Art, music, speech and theatre, language, literature, philosophy, or an interdisciplinary workshop.
2. History, geography, economics, political science.
3. Sociology, anthropology, biology, education, health and physical education, nursing, social welfare.

Students wishing to participate in the program should, in addition to following the regular procedures of advisement and registration, register either with the director of the Institute for Ethnic Studies (Main 151) or with the associate professor of human relations education (SCUB 203). The students will then be advised of an appropriate schedule of requirements and electives to help them prepare for careers in many areas including teaching, business, and social work. For more information, contact the Director of Ethnic Studies.

COURSE DESCRIPTION

SSC 480 Ethnic Cultures Workshop (3) This workshop considers the traditions, customs, present societal status, and contributions to American life of many ethnic groups. The guest-lectures and special programs are designed to increase the students' knowledge of the multicultural nature of American society today. Projects, specifically tailored to the students' individual needs, are directed by a faculty member of the Ethnic Studies Committee of West Chester State College. PREREQ: permission of the instructor.

Foreign Languages

Walter E. Frieman, Jr.
Chairperson
Marianne H. Kulaski
Assistant Chairperson

PROFESSORS: Frieman, Gutwirth, Lombardi, Nunez, Roberts, Smith
ASSOCIATE PROFESSORS: Escorcia, Glumac, Gougher, Kuhlmann, Kulaski, Lipscomb, Schneider
ASSISTANT PROFESSORS: Eisenstadt, Greene, Peters, Reiss
INSTRUCTORS: Brown, Rosso (Part-time)

BACHELOR OF ARTS—FOREIGN LANGUAGES

French Russian
German Spanish
Latin

The program in foreign languages is intended to provide an advanced educational program for the student interested in the most human aspect of the humanities, language. The program provides a flexible basis for a wide variety of vocations involving bilingual skills and cross-cultural understanding. These include government, commerce, and industry as well as publishing and social services. It also serves as a preparation for graduate studies leading to advanced degrees. The major should be planned with the help of the faculty adviser.

REQUIREMENTS FOR B.A. IN FOREIGN LANGUAGES:

1. General Requirements — 44 semester hours
2. Arts and Letters Core — 15 semester hours
3. Foreign Language Concentration — 33 semester hours
4. Two Cognate Courses:
   A. Linguistics 230 — 3 semester hours
   B. History of Language Area — 3 semester hours
5. Demonstration of proficiency in a second language through the Intermediate II level.

Depending on his second language proficiency, the student has from 27 to 39 elective hours. He may choose to apply some of these to additional advanced courses in his major area or to continue second or third language study.

For all foreign language majors some study abroad is desirable, indeed almost indispensable.

FRENCH-CONCENTRATION REQUIREMENTS (33 s.h.)
FRE 101-102*, 201-202, 203-204, 205-206, 207-208, 365.
Additional courses to complete the 33 s.h. under advisement.

GERMAN-CONCENTRATION REQUIREMENTS (33 s.h.)
GER 101-102*, 201-202, 203-204, 205-206, 207-208, 365.
Additional courses to complete the 33 s.h. under advisement.

LATIN-CONCENTRATION REQUIREMENTS (33 s.h.)
LAT 101-102*, 201, 202, 303, 406.
Additional courses to complete the 33 s.h. under advisement.

RUSSIAN-CONCENTRATION REQUIREMENTS (33 s.h.)
RUS 101-102*, 201-202, 203, 205-206, 207-208, 305-306, 365, 401.
Additional courses to complete the 33 s.h. under advisement.

SPANISH-CONCENTRATION REQUIREMENTS (33 s.h.)
SPA 101-102*, 201-202, 203-204, 207-208, 320-321, 365; Two of the following: SPA 305, 306, 307, 308, 309.
Additional courses to complete the 33 s.h. under advisement.

* Foreign language majors receive no credit towards graduation for 101 and/or 102 in their majors. If 101 and/or 102 in another language are taken as free electives, they will be credited towards graduation

B.S. IN EDUCATION—FOREIGN LANGUAGES

French Russian
German Spanish
Latin

The Instructional I Certificate in a foreign language qualifies the holder to teach his major language in the public schools (kindergarten through 12th grade) of Pennsylvania.

REQUIREMENTS FOR B.S. IN EDUCATION—FOREIGN LANGUAGES

1.	General Requirements, see page 60	44 s.h.
2.	Arts and Letters Core, see page 61	15 s.h.
3.	Foreign Language Concentration	33 s.h.
4.	Two cognate courses:	
	A. Linguistics 230	3 s.h.
	B. History of Language Area	3 s.h.
5.	Student must complete Professional Education Sequence of	29 s.h.

The student is allowed from 12 to 14 hours of electives, provided by No. 5 of General Requirements and by the Arts and Letters Core, and is advised to use them in areas which will contribute to his profession.

For all foreign language majors some study abroad is desirable, indeed almost indispensable. Students can receive assistance in selecting programs in areas where their language is spoken.

FRENCH-SPECIALIZED PREPARATION (33 s.h.)
FRE 101-102*, 201-202, 203-204, 204-206, 207-208, 365.
Additional French courses to complete the 33 s.h.
Students must also complete Lan 301, credited to Professional Education.

GERMAN-SPECIALIZED PREPARATION (33 s.h.)
GER 101-102*, 201-202, 203-204, 205-206, 207-208, 365.
Additional German courses to complete the 33 s.h.
Students must also complete LAN 301, credited to Professional Education.

LATIN-SPECIALIZED PREPARATION (33 s.h.)
LAT 101-102*, 201, 202, 303, 406.
Additional Latin courses to complete the 33 s.h.
Students must also complete LAT 301, credited to Professional Education.

RUSSIAN-SPECIALIZED PREPARATION (33 s.h.)
RUS 101-102*, 201-202, 203, 205-206, 207-208, 365, 401.
Additional Russian courses to complete the 33 s.h.

SPANISH-SPECIALIZED PREPARATION (33 s.h.)
SPA 101-102*, 201-202, 203, 204, 207-208, 320-321, 365; Two of the following: SPA 305, 306, 308, 309.
Additional Spanish courses to complete the 33 s.h.
Students must also complete LAN 301, credited to Professional Education.

* Foreign language majors receive no credit toward graduation or certification for 101 and/or 102 in their majors. If 101 and/or 102 in another language are taken as free electives, they will be credited towards graduation.

GREEK, ITALIAN, PORTUGUESE
The following courses in Greek, Italian and Portuguese are offered, but no major field is available.

GREEK—CLASSICAL AND NEW TESTAMENT
Elementary Greek I-II (GRE 101-102) and Intermediate Greek I-II (GRE 201-202).

ITALIAN
Elementary Italian I-II (ITA 101-102), Intermediate Italian I-II (ITA 201-202), Introduction to Dante (ITA 301), and High Points in Italian Literature (ITA 302).

PORTUGUESE
Elementary Portuguese I-II (POR 101-102) and Intermediate Portuguese I-II (POR 201-202).

ADDITIONAL LANGUAGES
Selected critical or uncommonly taught languages such as Chinese, Japanese, Polish, Serbo-Croatian, Modern Greek, Biblical Hebrew, and Modern Hebrew (LAN 191-192-193-194).

THE JUNIOR YEAR ABROAD PROGRAM

The following courses in French are offered at the University of Montpellier, France, under the Junior Year Abroad Program sponsored by West Chester State College. The program is designed for persons interested in France in order to give them a firsthand acquaintance with French life and enable them to achieve an active command of the language.

The program is open to any student enrolled in a college or university who has completed the equivalent of two years of college French and is able to take lectures in French. During the time the student is enrolled in the program, he is a student of West Chester State College and will receive a minimum of 30 credits for a full two semesters of college work after successful completion of the year-abroad program of studies. Each course runs for two semesters and is conducted entirely in French by French professors. Other types of programs can be arranged for non-language majors.

COURSE OFFERINGS
Advanced Grammar and Composition (FRE 361-62)
Advanced French Conversation (FRE 363-64)
Phonetics and Translation (FRE 365-66)
Contemporary French Civilization (FRE 367-68)
Literary Studies (FRE 369-70)

COURSE DESCRIPTIONS

FRENCH

Symbol: FRE

101-102 Elementary French I-II (3) (3) Fundamentals of French grammar, syntax, and pronunciation. Introduction to French culture through easy reading texts. The audio-lingual method is employed at all times. Work in the language laboratory required. Offered in fall and spring.

201-202 Intermediate French I-II (3) (3) Intensive review of grammar and syntax. Readings in French literature as a basis for class discussion in French and practice in composition. Language laboratory drill for remedial work only. PREREQ: FRE 102 or equivalent. Offered in fall and spring.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203-204 Advanced French Grammar and Composition I-II (3) (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. PREREQ: FRE 202 or equivalent. Work in the language laboratory required. Offered in fall and spring.

205-206 French Civilization I-II (3) (3) France's political and educational systems, her economic and religious institutions, and her folkways. The arts in France today. PREREQ: FRE 201 or equivalent. Offered in fall and spring.

207-208 Advanced Oral French I-II (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. PREREQ: FRE 203 or equivalent. Offered in fall and spring.

210 French for Business (1) Study of the language and vocabulary of business, trade, and industry in French. Intended for those interested in careers in business and industry. PREREQ: French 201 or equivalent.

211 Scientific French (1) Language and vocabulary of science in French. Techniques of translating scientific texts from French to English. PREREQ: FRE 201 or equivalent.

212 French for Travelers (1) Study of the language of travel along with a comparison of French and American customs and way of life in general.

365 French Phonetics (3) Description and practice in the sounds of the French language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 320.

401 French Literature of the 18th Century (3) The "philosophes" of the 18th century, emphasizing the works of Voltaire, Rousseau, Montesquieu, and Diderot. PREREQ: FRE 206. Offered in fall.

402 French Lyric Poetry (3) Dexelopment of French lyric forms; French versification, study of selected poets, using "explication de textes." Offered in spring.

403 French Literature of the 17th Century (3) 17th century prose; lyric and narrative poetry; the concept of classicism. Offered in fall.

404 French Classical Drama (3) Corneille, Racine, and Moliere. PREREQ: FRE 205. Offered in spring.

405 French Literature of the Middle Ages and Renaissance (3) Survey of selected readings in Modern French translation from Old French literature and from such major figures as Villon, Rabelais, the Pleiade poets, and Montaigne. Offered in fall.

406 Modern French Theater (3) Study of 20th-century theatrical forms, extending from the end of World War I to the present. Offered in spring.

408 20th Century Novel (3) The French novel of the century, from Proust and Gide to the "roman nouveau." Offered in spring.

410 Independent Studies in French Language and Literature (3) Special topics for advanced students only. Admission by permission of instructor.

411 Seminar in French (3) Independent study and research for Upper Division students. Topics announced annually by the French faculty. PREREQ: permission of instructor. Offered in fall.

412 Seminar in French (3) Independent study and research for Upper Division students. Topics announced annually by the French faculty. PREREQ: permission of instructor. Offered in spring.

FRENCH JUNIOR YEAR ABROAD PROGRAM
361-62 Advanced Grammar and Composition (6)
363-64 Advanced French Conversation (6)
365-66 Phonetics and Translation (6)
367-68 Contemporary French Civilization (6)
369-70 Literary Studies (6)

GERMAN
Symbol: GER

101-102 Elementary German I-II (3) (3) Fundamentals of German grammar, syntax, and pronunciation. Introduction to German culture through easy reading texts. The audio-lingual method is employed, and language laboratory drill is required. Offered in fall and spring.

201-202 Intermediate German I-II (3) (3) Review of grammar and syntax. Readings in German literature as a basis for class discussion in German and practice in composition. Language laboratory drill required for remedial work only. PREREQ: GER 102 or equivalent. Offered in fall and spring.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203-204 Advanced German Grammar and Composition I-II (3) (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. PREREQ: GER 202 or equivalent. Offered in fall and spring.

205 Survey of German Literature I (3) German literature from its earliest beginnings to 1800. PREREQ: GER 202 or equivalent. Offered in fall.

206 Survey of German Literature II (3) German literature from 1800 to the present. PREREQ: GER 202 or equivalent. Offered in spring.

207-208 Advanced Oral German I-II (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. PREREQ: GER 203 or equivalent. Offered in fall and spring.

210 German for Business (1) Intensive practice in writing business correspondence, job applications, discussions of business practices in Germany.

211 German for Science (1) Study of basic vocabulary for reading documents related to various scientific fields. Readings in individual fields of endeavor.

212 German for Travel (1) Study of major cities and cultural sites in Germany. Concentration on contemporary information and travel.

305 German Civilization (3) The evolution of Germany's social, political, and economic institutions. An analysis of the major contributions of German civilization to Western culture. PREREQ: GER 202 or equivalent. Offered in fall.

365 German Phonetics (3) Description and practice in the sounds of the German language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

401 The Age of Goethe (3) German literary doctrines and masterpieces of the periods of Enlightenment, Storm and Stress, and Classicism. PREREQ: GER 202 or equivalent. Offered in fall.

402 Contemporary German Literature (3) Works of the principal German writers of the 20th century. PREREQ: GER 202 or equivalent. Offered in spring

403 The German Short Story (3) The German short story from Romanticism to the present. PREREQ: GER 202 or equivalent. Offered in fall.

404 Goethe (3) Important works of Goethe; his background and literary development. PREREQ: GER 205. Offered in spring.

405 Scientific German (3) Review of syntax, readings, and translation in general science and basic technical fields. PREREQ: GER 102 or equivalent. Offered in fall.

406 German Literature of the 19th Century (3) German realism of the 19th Century. PREREQ: GER 206 or equivalent. Offered in spring.

407 German Lyric Poetry (3) Modern German poetry of pre and post World War II. PREREQ: GER 206 or equivalent. Offered in fall.

408 Modern German Drama (3) Major dramatists of the 20th Century. PREREQ: GER 206 or equivalent. Offered in spring.

409 German Literature of the Romantic Period (3) PREREQ: GER 206 or equivalent. Offered in fall.

410 Independent Studies in German Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

411 Seminar in German (3) Independent study and research for Upper Division students. Topics announced annually by the German faculty. PREREQ: permission of instructor. Offered in fall.

412 Seminar in German (3) Independent study and research for Upper Division students. Topic announced annually by the German faculty. PREREQ: permission of instructor. Offered in spring.

GREEK
Symbol: GRE

101 Elementary Greek I (3) For students who have had no previous Greek. Forms, syntax, and idioms of **Koine** Greek. Offered in fall.

102 Elementary Greek II (3) A continuation of Greek 101. Readings in New Testament and Septuagint Greek. Introduction to Attic Greek. Offered in spring.

201 Intermediate Greek I (3) Review of Attic Greek and readings in Socratic dialogues of Plato. PREREQ: GRE 102. Offered in fall.

202 Intermediate Greek II (3) Introduction to Greek tragedy. Sophocles' **Antigone** and Euripides' **Medea** are read and analyzed. PREREQ: GRE 201. Offered in spring.

ITALIAN
Symbol: ITA

101-102 Elementary Italian I-II (3) (3) Intensive drill, both in class and the language laboratory, with pronunciation, intonation, and basic linguistic patterns. Introduction to Italian culture through basic dialogues and easy reading texts. Offered in fall and spring.

201-202 Intermediate Italian I-II (3) (3) Review of Italian grammar and syntax. Introduction to Italian literature through short readings of intermediate difficulty. Composition and conversation in Italian based on reading assignments. Language laboratory for remedial drill. PREREQ: ITA 102 or equivalent. Offered in fall and spring.

301 Introduction to Dante (3) This course is taught in English and designed for those desirous of further study in Italian literature, as well as students in related fields: other Romance languages, English literature and other areas. Offered in fall.

302 High Points in Italian Literature (3) The most important Italian writers from the Renaissance to the present day, with emphasis on the modern period. Offered in spring.

LATIN
Symbol: LAT

101-102 Elementary Latin I-II (3) (3) Forma, syntax, and idioms of classical Latin. Selected readings. Offered in fall and spring.

201 Cicero (3) Selections from the orations, letters, and essays. PREREQ: LAT 101, 102, or two years of secondary school Latin. Offered in fall.

202 Vergil (3) Reading and analysis of celebrated portions of the **Aeneid.** The nature of Latin epic poetry. PREREQ: LAT 201 or three years of secondary school Latin. Offered in spring.

Note: LAT 202 or four years of secondary school Latin is prerequisite to all following courses in Latin.

301 Teaching of Latin (3) Introduction to the problems, methods, and materials in the teaching of Latin. Not offered in 77-78.

302 The Latin Lyric Poets (3) Latin lyric poetry through readings in Catullus and the Odes and Epodes of Horace. Practice in the composition of lyric poetry.

303 Advanced Latin Prose Composition (3) Required of Latin majors; open to other students accepted by the instructor. The complex syntactical structures of Latin of classical style. Translations of English into classical Latin. Not offered in 77-78.

304 The Latin Elegiac Poets (3) Latin elegiac poetry through readings, in Ovid, Tibullus, Lygdamas, Sulpicia, and Propertius. Practice in the composition of the elegiac poetry. Not offered in 77-78.

305 Reading Course in Latin (3) Open to Latin majors only. Area and content to be determined by student's needs. Not offered in 77-78.

306 Roman Historians (3) Introduction to Roman historiography. Reading in Livy, Sallust, and Tacitus. Not offered in 77-78.

401 Roman Drama (3) Origins and development of Roman drama. Selected plays of Plautus, Terence, and Seneca. Not offered in 77-78.

402 Roman Philosophy (3) Introduction to Greek and Roman philosophy. Readings in Cicero, "Tusculan Disputations," and Lucretius, "De Rerum Natura." Not offered in 77-78.

403 Roman Satire (3) Origins and development of Roman satire. Readings in Horace, Persius, and Juvenal. Not offered in 77-78.

404 The Latin Novel (3) Readings in Petronius, "Satyricon," and Apuleius, "The Golden Ass." Lectures and discussions of the emergence of the novel as a literary form. Not offered in 77-78.

405 Medieval Latin (3) Prose and poetry from the 4th to the 17th centuries. Not offered in 77-78.

406 Latin Tutorial Course (3) Required of majors in Latin or Classics; open to other students accepted by the instructor. Introduction to the history of the alphabet; principles of historical and comparative linguistics, especially as applied to Greek and Latin; and history of the Latin language as seen in ancient authors and inscriptions. Not offered in 77-78.

410 Independent Studies in Latin Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

411 Seminar in Latin (3) Independent study and research for upper division students. Topics announced annually by the Latin faculty. PREREQ: permission of instructor.

412 Seminar in Latin (3) Independent study and research for Upper Division students. Topics announced annually by the Latin faculty. PREREQ: permission of instructor.

PORTUGUESE

Symbol: POR

101-102 Elementary Portuguese I-II (3) (3) Fundamentals of Portuguese grammar, syntax, and pronunciation. Introduction to Brazilian heritage and culture through graded reading selections. A modern cognitive approach is emphasized. Offered in fall and spring.

201-202 Intermediate Portuguese I-II (3) (3) Review and continuation of basic Portuguese with emphasis on vocabulary expansion and cultural insights through increased readings materials. Introduction to selected Portuguese and Brazilian authors. PREREQ: POR 102. Offered in fall and spring.

RUSSIAN

Symbol: RUS

101-102 Elementary Russian I-II (3) (3) Fundamentals of Russian grammar, syntax, and pronunciation. Extensive drill in the language laboratory required. Offered in fall and spring.

201-202 Intermediate Russian I-II (3) (3) Grammar review with readings in Russian literature as a basis for class discussion in Russian and practice in composition. Language laboratory drill recommended for those needing further work in pronunciation and intonation. PREREQ: RUS 102. Offered in fall and spring.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203 Advanced Russian Grammar and Composition (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on current usage. PREREQ: RUS 202 or equivalent. Offered in fall.

205-206 Advanced Readings in Russian Literature I-II (3) (3) Works of Pushkin, Lermontov, Turgenev, and Gorki are read and analyzed. PREREQ: RUS 202 or equivalent. Offered in fall and spring.

207-208 Advanced Oral Russian I-II (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. PREREQ: RUS 203 or equivalent. Offered in fall and spring.

303-304 Scientific Russian I-II (3) (3) Review of syntax: reading and translation in general science and basic technical fields. PREREQ: RUS 202 or equivalent. Offered in fall and spring.

305-306 Russian Civilization I-II (3) (3) A study of the cultural, philosophical, religious, and artistic contributions of Russia. PREREQ: RUS 202 or equivalent. Offered in fall and spring.

365 Russian Phonetics (3) Description and practice in the sounds of the Russian language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

401 The Russian Novel (3) The Russian novel and literary trends of the 19th and 20th centuries. PREREQ: RUS 205 or equivalent. Offered in fall.

402 The Russian Drama (3) Works of the major dramatists of the 19th and 20th centuries. PREREQ: RUS 205 or equivalent. Offered in spring.

403 Russian Poetry of the 10th Century (3) A study of the principal Russian poets of the 20th century. PREREQ: RUS 205 or equivalent. Offered in fall.

410 Independent Studies in Russian Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

411 Seminar in Russian (3) Independent study and research for Upper Division students. Topics announced annually by the Russian faculty. PREREQ: permission of instructor. Offered in fall.

412 Seminar in Russian (3) Independent study and research for upper division students. Topics announced annually by the Russian faculty. PREREQ: permission of instructor. Offered in spring.

SPANISH

Symbol: SPA

101-102 Elementary Spanish I-II (3) (3) Fundamentals of Spanish grammar, syntax, and pronunciation from the oral-aural point of view. Introduction to Spanish culture through easy reading texts. Offered in fall and spring.

201-202 Intermediate Spanish I-II (3) (3) Review of Spanish grammar and syntax. Readings in Spanish literature as a basis for class discussion in Spanish and practice in composition. Language laboratory drill recommended for remedial work where needed. PREREQ: SPA 102 or equivalent. Offered in fall and spring.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203 Advanced Spanish Grammar (3) Review and mastery of Spanish grammar with emphasis on common grammatical problems, syntactic structures, and idiomatic expression. PREREQ: SPA 202 or equivalent. Offered in fall.

204 Advanced Spanish Composition (3) Written expression in Spanish on a more advanced level. Special attention to stylistics. An application of SPA 203. PREREQ: SPA 203. Offered in spring.

207-208 Advanced Oral Spanish I-II (3) (3) Intensive drill in oral usage of the Spanish language to develop proficiency in listening comprehension and speaking. PREREQ: SPA 203 or equivalent. Offered in fall and spring.

305 Spanish Medieval Literature (3) Spanish literature from its earliest beginning to the end of the 14th century. PREREQ: SPA 203 or equivalent. Offered in fall.

306 Spanish Literature of the Renaissance (3) Spanish literature from the Celestina through the 17th century. Emphasis on the Golden Age. PREREQ: SPA 203 or equivalent. Offered in spring.

307 Spanish Literature of the 18th and 19th Centuries (3) Spanish literature from the beginning of the 18th century to the end of the 19th excluding the Generation of 1898. PREREQ: SPA 203 or equivalent. Offered in fall.

308 Spanish Literature of the 20th Century (3) The literature and thought of this century in Spanish letters. PREREQ: SPA 203 or equivalent. Offered in spring.

309 Spanish American Literature (3) Spanish American literature through major authors and works. Perspective on the different literatures. PREREQ: SPA 203 or equivalent. Offered in fall.

320 Civilization of Spain (3) Major contributions of Spain. Cultual, geographic, literary, philosophical, and artistic manifestations of the Hispanic world. PREREQ: SPA 202 or equivalent. Offered in spring.

321 Civilization of Spanish America (3) Cultural, geographic, literary, philosophical, and artistic manifestations of the Hispanic American World. PREREQ: SPA 202 or equivalent. Offered in fall.

365 Spanish Phonetics (3) Description and practice in the sounds of the Spanish language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

401 Spanish "Comedia" of the Golden Age (3) Spanish National Theater. Themes and traditions in the "Comedia." PREREQ: SPA 306 or equivalent. Offered in fall.

402 Cervantes (3) Study of "Don Quijote." Cervantes' contribution to literature. An insight into his works. PREREQ: SPA 306 or equivalent. Offered in spring.

403 Spanish Lyric Poetry (3) Analysis of Spanish poetic expression and poetic form. Reading of the main lyric poets of Spanish literature. PREREQ: SPA 305 or 306 or 307 or 308 or equivalent. Offered in fall.

404 The Picaresque Novel (3) The picaresque tradition in Spain. The literary "picaro." The contributions of Spain to other literatures. PREREQ: SPA 306 or equivalent. Offered in spring.

405 Modern Spanish Theater (3) Contemporary Spanish theater from the late 19th century to the present. PREREQ: SPA 307 or 308 or equivalent. Offered in fall.

406 The Generation of 1898 (3) An evaluation of the Generation of 1898; its role in the literature, history, and philosophy of Spain. PREREQ: SPA 307 or 308 or equivalent. Offered in spring.

410 Independent Studies in Spanish Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

411 Seminar in Spanish (3) Independent study and research for Upper Division students. Topics announced annually by the Spanish faculty. PREREQ: permission of instructor. Offered in fall.

412 Seminar in Spanish (3) Independent study and research for Upper Division students. Topics announced annually by the Spanish faculty. PREREQ: permission of instructor. Offered in spring.

ADDITIONAL LANGUAGES

LAN 191-192 Critical Language I-II (3) (3) Self-instructional program in one of the seldom taught languages: Chinese, Japanese, Polish, Serbo-Croatian, Modern Greek, etc. The student works with an integrated text and tape program and a tutor. By permission of Department of Foreign Languages. Offered in fall and spring.

LAN 193-194 Critical Language III-IV (3) (3) Continuation of LAN 191-192.

COURSES COMMON TO ALL LANGUAGES

LAN 250 The Art of Translation (3) Techniques of translating literary, journalistic, and technical and scientific texts. PREREQ: 202 or equivalent in a modern language.

LAN 301 Teaching of Modern Languages: K-12 (5) Problems, methods, and materials of teaching second languages at all levels. Observation and participation in second-language classrooms. PREREQ: completion of language courses through the advnaced level and LIN 230.

LAN 411 Independent Study

LAN 303 Second Languages in the Elementary School (3) Techniques and materials used in teaching second languages in the elementary school. Practice in the application of these techniques and observation of foreign language classes in the Laboratory School. PREREQ: completion of intermediate level in the chosen foreign language.

LAN 305 Introduction to Bilingual/Bicultural Education (3) Introduction to the history, philosophy, current status, and future directions of Bilingual/Bicultural education. Survey of materials, techniques, instructional processes, and instructional patterns. Overview of testing, placement, and pupil evaluation. PREREQ: intermediate level proficiency in a second language and LIN 250 or equivalent.

LIN 230 (also ENG 230) Introduction to Linguistics (3) See ENG 230.

LIN 250 Psycholinguistics (3) Introduction to the study of relationships between language, generative models, communication theory, and learning theory. Major emphasis on national language development and bilingualism.

LIN 330 (also PHI 330) Introduction to Meaning (3) See PHI 330.

LIN 360 (also PHI 360) Philosophy of Language (3) See PHI 360.

LIN 380 Language and Culture (3) Language as an aspect of culture; linguistic-perceptual-cognitive categories; social and psychological aspects of language. PREREQ: LIN 230 or permission of instructor.

LIN 415 (also SPH 405) General Semantics (3) See SPH 405.

Geography and Planning

Charles W. Grassel,
Chairperson

PROFESSOR: Langdon
ASSOCIATE PROFESSORS: Bielski, Grassel, Rampon, Tachovsky
ASSISTANT PROFESSOR: Rengert

The basic objectives of study in geography at West Chester are threefold: (1) to serve the general education needs of all students, (2) to provide specialized preparation needed for either teaching of geography, or for working in geography and planning related fields, and (3) to meet the particular needs of students in the arts and sciences. The department attempts to assist students in comprehending the broad scope of man's physical/cultural environment and relationships to human situations and problems. As a discipline, geography provides a way of developing skills and of organizing knowledge from various disciplines, and enables students to examine the integrated whole of a people with reference to habitat and interspatial relationships.

BACHELOR OF ARTS—GEOGRAPHY

1.	General Requirements, see page 60	44 s.h.
2.	Foreign Language Requirement	6 s.h.
3.	Social Science Core, see page 61	21 s.h
4.	Geography Core Requirements Required: GEO 102, 212, 225, 400 (16 s.h.) Geography electives (under advisement) (17 s.h.)	33 s.h.
5.	Cognate Courses Courses (under advisement) which are specifically related to identified career aspirations, and chosen outside General Requirements, or Social Science Core, or Geography Core.	12 s.h.
6.	Free Electives	12 s.h.

B.S. IN EDUCATION

SOCIAL STUDIES—GEOGRAPHY

1.	General Requirements, see page 60	44 s.h.
2.	Professional Education Requirements, see page 194	29 s.h.
3.	Social Science Core, see page 61	21 s.h.

4. Geography Core Requirements 30 s.h.
   Required: GEO 102 or 236; 200; 103; 212; 225 (16 s.h.)
   Geography electives (under advisement) (14 s.h.)

5. Free Electives 4 s.h.

COURSE DESCRIPTIONS

Symbol: GEO

101 World Geography (3) The scope of geography and its special place in the cultural spectrum. Human society is examined in a terrestrial frame of spatial, environmental and resource factors. Emphasis is placed on the development of skills in the use of the "tools" of geography. Offered fall, spring, and summer.

102 Physical Geography (3) The study of basic principles of physical geography and of relationships between components of the total earth environment. Offered fall or spring.

103 Human Geography (3) An inquiry into the theoretical and applied approaches to the study of human spatial behavior and the distribution of social problems. Offered fall or spring.

200 Patterns of World Cultures (3) An examination of selected, non-western areas, representing different stages of development, in the contemporaneous world. Emphasis is placed on cultural adaptation, innovation and achievement of human occupants of these areas. Offered fall and spring.

205 Geographic Influences in American History (3) Geographic characteristics which bore prominently on the discovery and colonization of America, and on the progressive development of the United States up to the 20th century.

210 Population Problems (3) Regional variations in the distribution of human populations. Numbers, past and present, in relation to demographic characteristics and migrations of populations. Offered fall and spring.

212 Urban Growth Dynamics Analysis of patterns, processes, and consequences of urban growth and development. Theory of, systems, size, spacing, and functions of cities. Offered fall and spring.

214 Regional Planning (3) The regional method of analysis of the problems of urban and regional planning. Emphasis is placed on systems of housing, recreation transportation, industry, and commerce.

216 Planning for Public Services (3) A study of the quality of individual life. Analysis of geographic variation in social well being, problems of social system monitoring, and social indicators used in planning.

220 Location of Economic Activity (3) Introduction to basic theoretical models of agricultural, industrial and settlement geography. Emphasis is placed on fundamental methods of geographical analysis.

225 Map and Aerial Photo Interpretation (4) A laboratory course designed to develop skills in and promote an understanding of maps and aerial photos. Offered fall or spring.

230 Conservation of Natural Resources (3) An inquiry into the type, size, and distribution of natural resources, and into the problems of resource management. Emphasis is placed on the United States.

232 Environmental Crises (3) The nature and dimensions of environmental problems with emphasis on endangered life-support systems. Aspects of natural and social environment systems, and their mutual interrelationships.

234 Environmental Perception (3) An interdisciplinary inquiry into the mechanics and meaning of human encounters with varied types and elements of environment.

236 Climatology (3) Climatic variations on the earth, and their classification into regional types. Relationships of plants, soils, and cultures to types of climate.

238 Geomorphology (3) Constructional and degradational forces which have shaped present landforms, and are constantly reshaping and modifying landforms. Interpretation of geologic and topographic maps; field studies. Not to be offered in 1977-1978.

300 Pennsylvania (3) A regional study of Pennsylvania; cultural and economic responses to environmental factors. Analysis of population, urbanization, landforms, resources, agriculture and industry in the commonwealth.

301 Anglo America (3) A regional study of the United States and Canada; human adjustment to and interaction with physical environment. Emphasis is placed on relations between the two nations.

302 Latin America (3) A regional study of Middle and South America; hispanic historical and present-day adjustments to and interaction with physical environment.

303 Europe (3) A regional study of Europe, excluding the U.S.S.R. and its satellites; includes a macro-study of the continent, and sequential micro-studies of culturalized landscapes.

304 The Soviet Union (3) A regional study of European and Asiatic U.S.S.R.; analysis of geographic factors in relation to strengths and weaknesses as a major world power.

311-315 Geography Area Field Study (3 cr. for each study) Field courses involving travel and study in the United States and selected foreign countries. Costs vary with each course. PREREQ: permission of department chairperson. Offered summer only.

320 Land Use Planning (3) An inquiry into the development of comprehensive studies by governmental and private agencies, emphasizing the development of skills in problem identification and resolution.

322 Land Development Controls (3) An insight into the why and how of land development, emphasizing the role of local government in zoning and subdivision regulation.

324 Data Systems for Planning (3) An inquiry into primary data sources needed in the planning process, emphasizing appropriate applications and actual limitations of data.

326 Geographical Analysis (3) Applications of basic statistical techniques to problems of spatial significance, emphasizing the adaptation of technique to problem, and the understanding and interpretation of specific analytical methods as applied to real-world situations.

328 Computer Graphics (3) Designed to develop skills in the design and use of analytical and computer-mapping systems, the course emphasizes techniques of spatial problem-resolution and display.

400 Senior Seminar in Geography (3) Methods, bibliography, and presentation of research in geography. A research paper is prepared, and must be acceptable as a departmental senior research paper. Offered spring only.

401 Cartography (4) A laboratory course to develop proficiency in the design, construction, and appropriate application of maps and map-related graphics.

402 Teaching Geography in Secondary Schools (3) Contemporary methods and resources for the formulation, organization, presentation, and evaluation of geographic instruction. Open only to upper-division B.S. majors in geography.

410 Independent Studies in Geography (1-3) Research projects, reports, readings in geography. PREREQ: permission of department chairperson.

415 Internship in Geography (15) Practical job experience in applying geographic theory, executing substantive research, and engaging in community service in selected off-campus situations. Open only to upper-division B.A. majors in geography.

Government and Politics

A. Wayne Burton,
Chairperson

PROFESSORS: Brady, Harding, Mayo, Milne, Shea
ASSOCIATE PROFESSOR: Burns, Burton, Eldredge, Iacono
ASSISTANT PROFESSOR: Marbach

Political science systematically explores politics and government at all levels, both domestic and foreign, in theory and in practice. The discipline includes political philosophy, American politics, political behavior, comparative government, international relations, and public administration. Political science has traditionally led to opening in administration, personnel work, governmental service, public relations, journalism, teaching and the law.

The Bachelor of Arts program is especially relevant for the pre-law student. The department maintains a separate advisory program for pre-law students, both majors and non-majors, and is responsible for the Law Club.

A second B.A. concentration, for students with a special interest in public administration, is available. This program, designed to prepare the student for a career in governmental service, or local government administration, stresses practical aspects of administration including internship training with local agencies.

The B.S. in Education program prepares students to teach secondary school courses related to political science as well as one or more of the other social sciences.

Majors in the department must consult the department handbook and their advisor annually for current requirements.

BACHELOR OF ARTS—POLITICAL SCIENCE—GENERAL

1. General Requirements, see page 60 — 44 s.h.
2. Foreign Language Requirements — 6 s.h.
3. Social Science Core, see page 61 — 21 s.h.
4. Political Science Requirements — 30 s.h.
   - A. American Government and Politics (PSC 100) (credited to Social Science Core)
   - B. One course in each of the following six fields:
     International Relations: 217, 313, 314
     Political Behavior: 322, 329
     Political Theory: 335, 338, 339

Comparative Government: 340, 341, 342, 348, 349
American Government: 252, 255, 350, 354, 355, 356
Public Administration: 361, 363, 364, 369, 374, 375, 377, 378

C. Political Science Symposium (PSC 399)

D. Senior Project (PSC 401)

E. Two additional political science courses

5. Cognate requirements. Courses outside the major but considered relevant for majors. 15 s.h.

6. Free Electives 12-21 s.h.*

* Since some cognate requirements may be met by general requirements, the student may increase free electives available by as much as nine semester hours.

BACHELOR OF ARTS—POLITICAL SCIENCE—PUBLIC ADMINISTRATION

1. General Requirements, see page 60 44 s.h.
2. Foreign Language Requirements 6 s.h.
3. Social Science Core, see page 61 21 s.h.
4. Public Administration Concentration, PAD 364, 356 **or** 374, 361 **or** 363, 375, 377, 378 GEO 216, 320, 322 27 s.h.
5. PAD 412 Internship 6-15 s.h.*
6. A course in each of two of the following areas: 6 s.h.
   Political Theory: 335, 338, 339
   Political Behavior 322, 329
   International Relations: 217, 313, 314
   Comparative Government: 340, 341, 342, 348, 349
7. Cognate requirements 3-12 s.h.

   English 230, Math 121, Sph 230 **or** Sph 109, a Philosophy Course
8. Additional Free Electives 0-24 s.h.*

* All cognates except English, and two of the Geography courses may be taken as part of General Requirements and/or Social Science core, resulting in available hours for free electives or internship. Students with Intermediate Language Skills may free six more hours.

BACHELOR OF SCIENCE IN EDUCATION

SOCIAL STUDIES—POLITICAL SCIENCE

1. General Requirements, see page 60 44 s.h.
2. Professional Education Requirements, see page 194 29 s.h.
3. Specialized Preparation 56 s.h.

   A. Social Science core (21 s.h.), see page 61

   B. Political Science Requirements (3 s.h.)
   PSC 100 (credit to Social Science core)
   PSC 390 (credited to Professional Education)
   PSC 399 Political Science Symposium

   C. Political Science Electives (18 s.h.)
   Group I American Government—6 hours
   Group II International and Comparative Politics—6 hours
   Group III Specialization—6 hours

D. Academic Electives and Cognates (13 s.h.)
Primarily from social and behavioral sciences to broaden and strengthen preparation for teaching.

A Note on Course numbering system: 100 level courses are designed for general education use; 200 level are usually to be considered a second course, but may be taken by non-majors for general education when they correspond to special interests; 300 level are of greater difficulty and 390 through 412 usually for upper level majors. The second number indicates general sub-field in the discipline, and the third number is only for identification.

COURSE DESCRIPTIONS

Symbol: PSC

100 American Government and Politics (3) Devoted to understanding how the system works: political action, elections, interest groups, civil liberties, Congress, the presidency and the courts are among the topics considered. Seeks to provide a framework in terms of which process and current issues become meaningful.

101 Perspectives on American Politics (3) A simulation alternative to the generalized study of American Politics. Students role play as decision makers or interest group representatives with respect to three or four policy areas. (Not for majors credit.)

121 Introduction to Government and Politics (3) Survey of fundamental concepts in political science. Considers nature of the state, freedom, sovereignty, equality, theories of representation, other areas. (Not for majors credit.)

125 Grass-Roots Politics and the American Voter (3) Understanding the American electorate and the political party system. Culture, ideology, and socio-psychological factors are stressed. Campaign strategy and implementation at the grass-roots level are the central themes. (Not for majors credit.)

130 Contemporary Political Problems (3) A "theme" oriented course with semester's topic announced in advance. Emphasis on in-depth subject area study. (Not for majors credit.)

217 American Foreign Policy (3) Cultural, political, economic, and psychological influences on policy; process of decision making. Special attention to a few policy areas such as relations with allied, underdeveloped, revolutionary or Communist countries. Possible responses to threats of war, population growth, resource shortages, and pollution examined.

252 Civil Liberties and Civil Rights (3) A survey of the sources of civil liberties and civil rights in the United States with an inquiry into contemporary problems and their solutions through statutory and constitutional developments.

255 Politics of the Law in Society (3) Nature, functions, limits and sources of the law as an instrument of social and political control and direction. The political and social base and consequence of the development of the law as it applies to the poor, the ecology, property, contracts, torts and the criminally accused.

313 International Politics (3) Politics among nations, including politics carried on through international organizations. Examines power politics, techniques of diplomacy, methods of current international organizations. Special attention to U.S. interests and policies.

314 Futuristic World Politics (3) Possible ways to deal with problems arising from population growth and the new technology; shrinking resources, pollution, the menaced oceans and space, nuclear war. Theories are tested with social science knowledge and some simulation.

322 Public Opinion, Propaganda, and Political Behavior (3) The dynamics of opinion formation and change; the role of public opinion in policy formation; political socialization, survey research and propaganda techniques considered.

329 Judicial Behavior (3) A behavioral approach to the law, with specific reference to conceptual, methodological and ideological considerations. Depending on availability of information, role-playing simulations with students becoming judges and attorneys.

335 American Political Ideas (3) Ideological treatment of major elements of American politics: constitutionalism, federalism, checks and balances, rights under law, equality and liberty, laissez faire, and the welfare state.

338 Introduction to Political Thought (3) Great political thinkers of Western Civilization from Plato to the present. Historical background of Western thought and its relevance to the present political world.

339 Contemporary Political Thought (3) Consideration of major political thinkers since Marx. includes writings and political significance of Marcuse, Fromm, Lenin, Trotsky and the Democratic Socialists.

340 Latin American Culture and Politics (3) Comparative analysis of contemporary Latin-American systems. Political cultures, decision-making, ideologies, political processes. Latin-American social systems are examined comprehensively, but Mexico, Brazil, Argentina and Chile are analyzed comparatively.

341 Politics of Non-Western Areas (3) Emphasis on the problems of nation-building, political participation, and elite-mass relationships in the less developed nations. Latin American, Asian or African nations may be stressed as a case study.

342 Government and Politics of Western Europe (3) Primary attention focuses on France, West Germany, and Great Britain; secondary attention on other European systems. Political cultures, popular participation, political parties and formal institutions of government.

348 African Culture and Politics (3) The political nature and practices of individuals, organizations and government of Black Africa are examined in the cultural context of the contemporary independent period.

349 Comparative Communism (3) Comparative analysis of the ideological, political, social and economic systems of Communist nations. Concentration is on comparisons between the Soviet Union and Communist China, but other Communists systems are considered.

350 American Constitutional Law (3) The development of the American Constitutional System as reflected in leading decisions of the United States Supreme Court. Emphasis on national powers, federalism, and the Bill of Rights. PREREQ: PSC 100 or consent of instructor.

354 American Political Parties (3) Patterns, functions and history of the American political party system at national, state and local levels. Theoretical and empirical studies of political interest groups, public opinion and voting behavior.

355 Congressional Politics (3) Deals with the internal and external factors which influence Congressional behavior. Includes the role of constituents, pressure groups, parties, the committee system, rules and the leadership. Relationships to president and court structure and impact of electoral politics also considered. Comparisons with state legislatures.

356 American Public Policy (3) Actual policy; its formation and execution. Policy areas considered vary from semester to semester. May include role playing simulation. PREREQ: PSC 100 or 101 or permission of instructor.

390 Teaching Behavioral Sciences in Secondary Schools (3) Preparation for teaching secondary social studies, especially behavioral sciences and most particularly

political science. Focus is on achievement of behavioral objectives based on a knowledge of learning theory applied to curriculum, methods, materials and evaluation. PREREQ: EDP 250.

399 Political Science Symposium (3) Nature of research in political science. Construction of a research design. Extensive reading in an area of political science.

400 Senior Seminar in Political Science (3) Research in political science. Methodology, bibliography, and presentation, both oral and written. The research paper for the seminar must be acceptable as a required departmental senior research paper.

401 Senior Project in Political Science (3) Execution of the research design constructed in PSC 399. Involves completion of major senior paper under supervision of a staff member. Extensive independent effort. PREREQ: PSC 399.

410 Independent Studies in Political Science (1 to 3) Research projects, reports, readings in political science. Open to seniors only. PREREQ: permission of instructor.

412 Internship in Political Science (3 to 15) Upper level student field placement learning. Short term 3 to 6 hour experiences in political settings under faculty advisement; and 9 to 15 hour placements in state, federal, local governmental/public serving agencies. Learning contracts and faculty advisement create a whole experience from the practical exposure to government administration.

Public Administration

Symbol: PAD

361 State and Local Government (3) Examination of the organization, functions and politics of state and local government, including analysis of politics in states, counties, cities and towns in urban, suburban and rural areas. Intergovernmental relations in education, transportation and welfare policy are examined.

363 Metropolitan Government (3) Structures and processes of central city and suburban government are considered. Examines patterns and trends in governmental organization and administration as well as sources of conflict in urban decision making, e.g., the urbanization process, race and class antagonism, and city-suburban perspectives.

364 Elements of Public Administration (3) Considers public administration in the United States as a process of implementing public policy. Uses case studies and projects with texts focusing on organizational theory, human behavior and motivation, budgeting, personnel, and administrative responsibility.

369 Politics of Bureaucracy and Administrative Behavior (3) In-depth examination of the fourth branch of government. Impact of the administrative apparatus (bureaucracy) on public policy formulation and implementation Case studies and student projects.

374 Municipal and Administrative Law (3) An in-depth examination of the impact of municipal law and local regulation and its social, economic and political impact. Attention to such areas as zoning.

375 Government Finance and Budgeting (3) Policy choices for the public and private sectors of the economy stressing revenue raising, allocation of scarce resources, internal budgeting, legislative relationships. Student projects on revenue and budgeting. Recommended PREREQ: PAD 364.

377 Government Personnel and Management (3) Examination of governmental recruitment practices, including current personnel classification and compensation policies, as well as government selection, recruitment, and promotion procedures. Managerial functions of oversight, supervision and motivation are heavily emphasized. Recommended PREREQ: PAD 364.

378 Public Organizations: Theory and Practice (3) Nature of public organizations such as government agencies, the environment of their operations, relations to public and private organizations, theories of their structure and behaviors, stressing the public setting and political processes which provide their functioning environment.

412 Internship in Public Administration (3 to 15) Same as PSC 412, but students with public administration concentration must meet PREREQ: PAD 364.

Health, Physical Education and Recreation

Walter E. Funk
Chairperson, Department of Health Education

Melvin M. Lorback,
Chairperson, Department of Physical Education

Robert W. Reese,
Director of Athletics

Joyce R. Countiss,
Assoc. Director of Athletics

Edward C. Bitner,
Coordinator of Recreational Services

Norman A. Cochran,
Coordinator of Elementary Physical Education

Alvin B. Davis,
Coordinator of Student Teaching

John R. Steinmetz,
Budget and Facility Coordinator

John N. Trezise,
Course Coordinator of Non-Major Physical Education

Richard B. Yoder,
Coordinator of Safety Education

PROFESSORS: Cochran, Cottrell, Kapilian, Lank, Lemcke, Lowe, Norris, Nye, Owens, Serpico, Sturzebecker, Youmans
ASSOCIATE PROFESSORS: Bonsall, Butler, Charters, Coates, Collier, Davis, DeMillion, Donley, Fisher, Funk, Furlow, Goodwin, Greenwood, Heller, Huffman, Karas, Lorback, Margerum, Martin, Parkinson, Reed, Reese, Steinmetz, Taylor, E , Trezise, Voss, Wilkinson, Wintermute, Woods, Yoder
ASSISTANT PROFESSOR: Bitner, Bove, Boyle, Caldwell, Countiss, Giunta, Goetz, Godek, Gros, Jones, Lauletta, Pagano, Remley, Smith, Trnka, Wolstenholme
INSTRUCTORS: Cash, Hofford, Lappano, Leap, Taylor, B., Thielz
HEAD COACHES FOR MEN: Baseball—Serpico, Basketball—Voss, Cross-Country—Butler, Football—Furlow, Golf—Cottrell, Gymnastics—Trnka, Soccer—Lorback, Swimming—Pagano, Tennis—Woods, Track—Butler, Wrestling—Collier
HEAD COACHES FOR WOMEN: Archery—Parkinson, Badminton—Boyle, Basketball—Caldwell, Bowling—Heller, Field Hockey—Gros, Gymnastics—Thielz, Lacrosse—Gros, Softball Boyle, Swimming—Parkinson, Tennis—Karas

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The School of Health, Physical Education and Recreation at West Chester has a record of excellence and a long history; West Chester's program

of coeducational physical education is one of the oldest in the United States. The first Director of Physical Training, Dr. Clyde Ehinger, was appointed in 1890.

PROGRAMS OF STUDY

B.S. in Health and Physical Education
B.S. in Health Education
B.S. in Public Health

The School of Health, Physical Education and Recreation offers a dual major leading to the Bachelor of Science in Health and Physical Education and a second program leading to the Bachelor of Science in Health Education. Both programs, upon satisfactory completion, permit the student to attain the Pennsylvania Instructional I Certificate, valid for teaching the specified subject in the elementary and secondary schools of Pennsylvania for three years. In addition, the school offers a Bachelor of Science degree in Public Health.

NON-DEGREE PROGRAMS

Certification in Driver Education and Safe Living. Details of this program, which includes highway as well as general safety education, are given following the degree curricula.

Athletic Training Education Program. In 1972 the School introduced a program, approved by the National Athletic Trainer's Association, which prepares students to become certified athletic trainers. As of 1974 West Chester is the only college offering this new opportunity toward certification in a summer program. Interestingly, the West Chester program has had an outstandingly high percentage of women participants. The training-education program is designed for both undergraduates and in-service teachers and coaches.

Coaching Certification Program (Athletic Coaching, K-12). Open to undergraduates and graduates from all study fields. The Pennsylvania Department of Education now requires that coaches be certified. Those who successfully complete the program at West Chester earn a transcript and written endorsement from the School of Health, Physical Education and Recreation and official certification from the P.D.E. attesting to school administrators that recipients have attained basic preparation for coaching. The program is a model for a needed broadening of coaching standards. West Chester physical education majors may take any of these courses toward their graduation requirements.

Recreation Leadership Program. Since World War II, Recreation has played an ever-increasing part in the life style of the American people. With this increase a need and demand for trained, professional recreation leaders has emerged.

Recognizing this need, the School of Health, Physical Education and Recreation established a recreation emphasis program for their physical education majors desiring to increase their recreation leadership skills.

The recreation emphasis program provides the student with two tracks: Recreation Services and Recreational Outdoor Pursuit Education (R.O.P.E.) The recreation services track prepares the student for recreation positions

in community recreation and parks departments, youth-serving agency building programs, camps and therapeutic recreation programs.

The recreational outdoor pursuit emphasis is designed to provide students a personal outdoor pursuit experience, skill training in the adventure based outdoor activities as well as training in the concepts, process, and methodology needed to design and instruct an experimental education program.

FACILITIES

Facilities to support the programs of the school have kept pace with a rapid increase in students and faculty. The new Health and Physical Education Center and field complex, located on South Campus, provide the college with one of the nation's outstanding facilities for education and research in health and physical education. Among its notable components are its research facilities, its multi-purpose teaching stations, and a one-acre gymnasium divisible into six separate pneumatically sealed gymnasiums. A vast complex of tennis courts and baseball, lacrosse, field hockey, soccer, and football fields is also located on the South Campus.

ADMISSION

Students seeking admission to the School of Health, Physical Education and Recreation must meet the basic requirements of the college (see Admission to West Chester).

Admission to the Degree Program in Health and Physical Education. Applicants must have participated in both physical education classes and extracurricular athletic programs in secondary school. A pre-admission interview conducted by school faculty, as well as a testing program, evaluate the candidate's promise of performance in the program.

Admission to the Degree Programs in Health Education and Public Health. A preadmission interview conducted by Department of Health Education faculty members evaluates the applicant's personal qualifications for admission.

Transfer Students—see three items pertaining to transfer students under Admission to West Chester.

PROFESSIONAL REQUIREMENTS FOR HEALTH AND PHYSICAL EDUCATION MAJORS

Students in the dual major must purchase uniforms. (See "Additional Costs" in Fees/Expenses.) As a prerequisite for senior standing, students in the dual major must have completed the extracurricular and sports credit requirement of the Department of Physical Education.

INTERCOLLEGIATE ATHLETIC PROGRAM

West Chester regards athletic activities as an important part of the College experience—indeed, as a facet of education. The underlying purpose of West Chester's athletic program is the development of enduring educational values. To achieve these purposes and to provide opportunities to train those who will later become coaches, the School of Health, Physical Education, and Recreation administers the athletic program, which provides

a broad variety of team, individual, and dual sports for men and women students.

To permit participation by as many students as possible the college offers a wide variety of intercollegiate athletics. The men's intercollegiate athletic program includes: baseball, basketball, cross country, football, golf, gymnastics, indoor track, soccer, swimming, tennis, track and field, and wrestling. The women's intercollegiate athletic program includes: badminton, basketball, field hockey, gymnastics, lacrosse, softball, swimming, tennis, track and field, and volleyball. Through participation in the planning, organization, and performance of these sports, leadership capabilities are developed. Schedules are sought which, while in the college's class, measure up to the high athletic traditions and standing of West Chester.

West Chester is a member of the National Collegiate Athletic Association, Association for Intercollegiate Athletics for Women, Intercollegiate Amateur Association of America, Eastern Association for Intercollegiate Athletics for Women, Eastern Collegiate Athletic Conference, East Coast Conference, Pennsylvania State College Athletic Conference, and Pennsylvania and Philadelphia Associations for Intercollegiate Athletics for Women.

West Chester's new Health and Physical Education Center and field complex afford excellent facilities and equipment for the College's broad and varied athletic program. All coaches are faculty members. Qualified and experienced athletic trainers are an integral part of the intercollegiate program.

RECREATIONAL SERVICES

Diminishing work hours and technological advances have given new dimensions to leisure in modern society. This change led to the college, in 1972, to establish Recreational Services, giving the entire college community an opportunity to discover interesting and rewarding uses of leisure time. Conducted under the supervision of the School of Health, Physical Education and Recreation, Recreational Services has developed a great variety of informal activities which extend beyond the school's organized athletic programs.

Recreational Services utilizes college facilities and are partially financed through Intracollegiate Governmental Association funds.

GENERAL SERVICES

General Services activities are of a non-competitive nature, both organized and informal. Informal programs include providing recreational equipment to individuals and groups for leisure time use and scheduling swimming pool facilities and gymnasium for free play. Formal programs provide instruction classes in arts and crafts, skiing trips, slimnastics, golf, square and folk dances, bowling, roller and ice skating parties, bicycle trips, and a run-for-fun jogging program. A new picnic area for use by the college community was added in 1975.

General Services publishes the Recreational Services Handbook describing available activities.

RECREATIONAL SPORTS

The Recreational Sports Program is designed to afford every student the opportunity to participate in individual and/or group competition. Emphasis is placed on providing this experience for those students who do not have time, desire, ability, or physical attributes to participate in intercollegiate athletics. Included in the program are men's flag football, volleyball, and cross country and women's softball and basketball. Coed activities are volleyball, badminton, arm wrestling, foul shooting, and paddleball.

SPORTS CLUB

Sports clubs have been growing in popularity as a means of meeting the recreational needs of college students. Students, faculty, and staff members with similar sports interests have the opportunity to enjoy these interests together. West Chester has nine sports clubs recognized by the College and the Intracollegiate Governmental Association and coordinated through Recreational Services. Each club selects its own faculty advisor, develops a constitution based on the club's philosophy, elects its own officers, and sets up the training schedule and program. All full or part time undergraduate or graduate students are eligible to join any club. Persons interested in joining a club may contact the president of the club for details on becoming a member.

B.S. IN HEALTH AND PHYSICAL EDUCATION

1. General Requirements 44 s.h.

   Refer to page 60 for a full explanation of the distribution of these requirements. The School of Health, Physical Education and Recreation recommends that students apply those courses marked with an asterisk (under 4—Related Requirements) to General Requirements.

   Note that General Requirements afford the major 12 s.h. of free electives.

2. Professional Education Requirements

School and Society (EDF 100)	3
Psychology of Learning and Development (EDP 250)	3
Evaluation in Health and Physical Education (PED 351)	3
Preparation for Teaching Activities (PED 243)	1
Physical Education for Elementary Grades (PED 350)	3
Preparation for Classroom Teaching (HED 306)	3
Student Teaching (PED 490 for Men or PED 491 for Women)	12

3. Health and Physical Education Core Requirements

Physical Education

Soccer/Wrestling (Men) (PED 110)	1
Soccer/Basketball (Women) (PED 111)	
Gymnastics I (Men) (PED 112)	1
Gymnastics I (Women) (PED 113)	
Aquatics Fundaments (PED 140)*	1
Social, Folk, Square Dance (PED 141)*	1
Tennis/Badminton (PED 142)	1
Golf/Archery/Recreational Games (PED 143)	1
Basketball/Baseball (Men) (PED 210)	1

Hockey/Volleyball (Women) (PED 211)	
Football and Track/Field (Men) (PED 212)	1
Lacrosse and Track/Field (Women) (PED 213)	
Physical Conditioning/Volleyball (Men) (PED 214)	1
Modern Dance I (Women) (PED 215)	
Fundamental Movement and Elementary Rhythms (PED 242)	1
Principles of Recreation (PED 250)	2
Physical Activity for Special Children (PED 251)	3
Applied Physiology (PED 352)	3
Organization and Administration of Physical Education and Athletics (PED 353)	3
Kinesiology (PED 361)	2
History and Philosophy of Health and Physical Education (PED 451)	2

Health Education

Foundations of Health I-II (HED 201-202)	6
Safety Concepts, Emergency Procedures, Injury Management (HED 205)	2
School Health Program (HED 305)	3
Human Development (HED 206)	3

Other Fields

Human Anatomy (BIO 209)	4
Human Physiology (BIO 309)	4
Effective Writing II (ENG 121)	3

4. Related Requirements

Effective Writing I (ENG 120)*	3
Introduction to Anthropology (ANT 102)*	3
Chemistry and Man (CHE 100)*	3
Basic Experimental Chemistry (CHL 100)*	1
Introduction to Mathematics (MAT 103)*	3
Introduction to Philosophy (PHI 101)*	3
Introduction to Psychology (PSY 100)*	3
Speech Fundamentals: Interpersonal Communication (SPH 101)*	3

5. Area of Concentration Requirements

During the sophomore year, the student may select an Area of Concentration. The requirements which the student must meet for his Area are shown below.

* May be credited to General Requirements

AREAS OF CONCENTRATION (SELECT ONE)

SECONDARY PHYSICAL EDUCATION CONCENTRATION FOR MEN—8 S.H.

Required: Prep for Tchg (PED 310), Principles of Coaching (PED 452). Select si of the following activities courses: PED 312-314-316-318-320-322-324-326-328-330. Select one course (2 credits) from the following theory courses: PED 453-454. Under advisement, two credits in Health Education may be chosen in place of one theory course.

SECONDARY PHYSICAL EDUCATION CONCENTRATION FOR WOMEN—8 S.H.

Required: Prep for Tchg (PED 311), Principles of Coaching (PED 452). Select six of the following activities courses: PED 313-315-317-319-321-323-325-327-329. Select one course (2 credits) from the following theory courses: PED 453-454-455. Under advisement, two credits in Health Education may be chosen in place of one theory course.

ELEMENTARY PHYSICAL EDUCATION CONCENTRATION—7 S.H.

Required: Self-Testing Activities in Elementary School Physical Education (PED 340); Elementary Physical Education Curriculum (PED 354). Select either PED 440 or PED 453.

DANCE CONCENTRATION—7 S.H.

Required: Modern Dance I-II (PED 215-343); History of the Dance (PED 344); Dance Production I (PED 345); Dance Production II (PED 346); Principles of Choreo- (PED 441). Select one dance course from PED 341 or 342. Select one course from: PED 442-443. Select one course from PED 101—Jazz or Ballet.

SAFETY CONCENTRATION—9 S.H.

Required: Education for Safe Living (PED 355); Principles and Practices of Driver and Traffic Safety Education (PED 356); Preparation for Teaching Driver Education (PED 456).

ATHLETIC TRAINING CONCENTRATION—15 S.H.

Required: Therapeutics (PED 357); Advanced Athletic Training I-II (PED 358-359); Athletic Injury Management I-II (PED 459-460).

SPECIAL PHYSICAL EDUCATION CONCENTRATION—8 S.H.

Required: Therapeutics (PED 357); Pathology for Special Physical Education (PED 360). Select either PED 457 or Psychology of Exceptional Children (EDA 241).

SECONDARY HEALTH EDUCATION CONCENTRATION—Minimum of 9 s.h.

Select from the following courses for a minimum of 9 semester hours: At least two courses from HED 103, 105, 106, 301, 305, 401. Any of these: Mental Hygiene (PSY 370); Contemporary Social Problems (SOC 332); Basic Ecology (BIO 201).

RECREATION AND/OR OUTDOOR EDUCATION CONCENTRATION—7-9 S.H.

This is a two-track program. The student may, under advisement, select courses in recreational services and/or outdoor education.

Department of Health

Walter E. Funk,
Chairperson

PROFESSORS: Lemcke, Nye
ASSOCIATE PROFESSORS: DeMillion, Fisher, Heller, Huffman, Reed, Steinmetz, Voss
ASSISTANT PROFESSORS: Boyle, Goetz
INSTRUCTORS: Hofford, Leap

The Department of Health offers two major programs—health education, a preparation to teach kindergarten through grade twelve in schools, and

public health, a preparation to enter the field of community health through programs and services delivered by private, local, state and national institutions.

BACHELOR OF SCIENCE IN HEALTH EDUCATION

1. General Requirements 44 s.h.

   Refer to page 60 for a full explanation of the distribution of these requirements. The Department of Health Education recommends that students apply those courses marked with an asterisk (under 4—Related Requirements) to general requirements.

   Note that general requirements afford the major 12 s.h. of free electives.

2. Specialized Preparation
   - A. Foundations of Health I, HED 201
   - B. First Aid for Health Professionals, HED 204
   - C. Community Health, HED 241
   - D. Addictives for Health Professionals, HED 302
   - E. Nutrition, HED 303
   - F. Family Life and Sex Education, HED 304
   - G. School Health Program, HED 305
   - H. Human Anatomy, BIO 209
   - I. Human Physiology, BIO 309
   - J. Mental Hygiene, PSY 370
   - K. Seminar in Health Education, HED 401

3. Professional Education Requirements
   - A. School and Society, EDG 100
   - B. Psychology of Learning and Development, EDP 250
   - C. Introduction to Instructional Communications, EDM 300
   - D. Evaluation in Health and Physical Education, PED 351
   - E. Human Development, HED 206
   - F. Preparation for Teaching Health, HED 307
   - G. Field Experience in Health Education, HED 308
   - H. Student Teaching, HED 404

4. Related Requirements
   - A. Speech Fundamentals: Interpersonal Communication, SPH 101*
   - B. Introduction to Philosophy, PHI 101*
   - C. Effective Writing I, ENG 121
   - D. American Government and Politics, PSC 100*
   - E. Introduction to Sociology, SOC 100*
   - F. Introduction to Psychology, PSY 100*
   - G. Social Psychology, PSY 354
   - H. Basic Biological Science, BIO 100*
   - I. Chemistry and Man, CHE 100
   - J. Basic Experimental Chemistry, CHL 100*

5. Electives, under advisement 4 s.h.

* May be credited to General Requirements

BACHELOR OF SCIENCE IN PUBLIC HEALTH

1. General Requirements 44 s.h.

   Refer to page 60 for a full explanation of the distribution of these requirements. The Department of Health Education recommends that students apply those

courses marked with an asterisk (under 4—Related Requirements) to general requirements.

Note that general requirements afford the major 12 s.h. of free electives.

2. Specialized Preparation
   A. Foundations of Health I, HED 201
   B. First Aid for Health Professionals, HED 204
   C. Community Health, HED 241
   D. Addictives for Health Professionals, HED 302
   E. Nutrition, HED 303
   F. Family Life and Sex Education, HED 304
   G. School Health Program, HED 305
   H. Basic Biological Science, BIO 100
   I. Micro-biology for Nurses, BIO 104
   J. Human Anatomy, BIO 209
   K. Human Physiology, BIO 309

3. Professional Education Requirements
   A. Human Development, HED 206
   B. Organization and Administration of Public Health, HED 242
   C. Chronic and Communicable Diseases, HED 341
   D. Preparation for Field Work, HED 342
   E. Seminar in Health Education, HED 401
   F. Field Experience Public Health, HED 441
   G. Mass Media in Society, ENG 211
   H. Introduction to Instructional Communications, EDM 300
   I. Introduction to Social Work, SWO 200
   J. Human Problems, SWO 250

4. Related Requirements
   A. Speech Fundamentals: Interpersonal Communication, SPH 101
   B. Effective Writing I, ENG 120
   C. Introduction to Psychology, PSY 100
   D. Social Psychology, PSY 354
   E. Mental Hygiene, PSY 370
   F. Psychology of Learning and Development, EDP 250
   G. Introduction to Sociology, SOC 100
   H. Statistics, MAT 121
   I. Introduction to Philosophy, PHI 101
   J. American Government and Politics, PSC 100
   K. Ecology, BIO 370
   L. Chemistry and Man, CHE 100

5. Electives, under advisement
   Students may elect any of the following chemistry courses in place of Chemistry 100.
   Chemistry for Nurses, CHE 101
   General Chemistry I-II, CHE 103-104
   Chemistry: An Interdisciplinary Approach I-II, CHE 106-107

CERTIFICATION PROGRAM IN DRIVER EDUCATION AND SAFE LIVING
(Highway Safety and General Safety Education)

Completion of the following program will enable the teacher to endorse his teaching certificate with this area. Students must apply for the endorsement through the office of the dean of the School of Education.

PED 355, 356, 450, 456 — 12 s.h.

The program may be taken in whole or in part during summer sessions. Some of the courses are also offered in fall or spring semesters.

ATHLETIC TRAINING EDUCATION PROGRAM (SUMMERS)

The following courses can be taken during a nine-week summer period as partial fulfillment of the National Athletic Trainer's approved program for preparation toward national certification. The total program consists of a 15-hour block, with prerequisites. Nine of these hours are offered, as follows:

PED 357, 358, 359 — 9 s.h.

Consult the Undergraduate Summer Catalog for schedules. Or write to the School of Health and Physical Education before May 1.

COACHING CERTIFICATION PROGRAM (SUMMER

The Pennsylvania Department of Education now requires that coaches be certified. Those who successfully complete the sequence of courses offered at West Chester earn a transcrpt and written endorsement from the School of Health, Physical Education and Recreation and official certification from the P.D.E. attesting to school administrators that recipients have attained basic preparation for coaching. The program, open to undergraduates and graduates from all fields, is a model for a needed broadening of coaching standards. Although it was designed for coaches and prospective coaches not from health or physical education, West Chester physical education majors may take any of these courses toward their graduation requirements.

PRE SESSION (EVENING)

PD 353, 454 — 5 s.h.

REGULAR SESSION (DAY)

PED 361, 452, 453; HED 271 — 8 s.h.

POST SESSION (DAY)

PED 352 — 3 s.h.

A PROGRAM IN RECREATION LEADERSHIP

For students who desire to prepare as recreation leaders, the Department of Physical Education provides appropriate elective courses, in addition to related courses included in the requirements for the health and physical education major. The department also offers a special program in camp leadership for staff members at children's summer camps. This supervised field experience is designed to aid the student's professional growth through work with children in the informal atmosphere of the camp.

Any West Chester student is eligible to participate in the field program. If credit is to be applied toward a degree, permission of his adviser should be obtained.

Students from other colleges may register, with the permission of the course instructor. They are advised to obtain approval from their own college in order to assure that credits from the course may be applied toward degree requirements. The available electives, as well as the summer field experience, are:

		Semester Hours
PED 250	Principles of Recreation	2
PED 367	Arts and Crafts in Recreation	3
PED 368	Leadership in Recreation	2
PED 370	Camping and Outing	

Summer Field Experience:
PED 467 Supervised Camping Leadership 3
(6 to 8 weeks' attendance at camp July through August)

COURSE DESCRIPTIONS

HEALTH

Symbol: HED

The first number in parentheses shows number of class meetings per week; the second one shows semester hours of credit.

101 Health (2) (2) Contemporary health problems of the college student.

102 Mental Health (3) (3) Designed to aid persons in improving their understanding of themselves and others. Emphasis on ways to recognize mental health problems.

103 Addictives (3) (3) Thorough study of all addictives in relation to the individual and society.

104 Human Sexuality (3) (3) Study of sexuality as it relates to self; the interrelationships with persons.

105 Consumer Issues (3) (3) Study of consumer issues today that relate to the field of health.

106 Contemporary Issues In Living and Dying (3) (3) Current controversial issues including death and dying. How involved persons cope with death.

107 Parenthood Education (3) (3) Examining the role of the parent; improvement of parent-child relationships.

201 Foundations of Health I (3) (3) Fundamental knowledge of the major health problems.

202 Foundations of Health II (3) (3) Fundamental knowledge of the major health problems. PREREQ: HED 201

203 Criminal Justice Health (3) (3) Prepares the student to recognize health problems and to perform effectively in emergency health-related situations.

204 First Aid for Health Professionals (2) (2) Prepares students entering the professional field of health to meet emergencies requiring first-aid procedures.

205 Safety Concepts, Emergency Procedures, Injury Management (3) (2) Prepares the student to recognize and treat injuries that require immediate and long-term treatment.

206 Human Development (3) (3) Study of growth from conception through adolescence from the mental, emotional, and physical viewpoints.

207 Health for Early Education (3) (3) A study of health education content and methods that will lead to the development of good health practices in young children. PREREQ: EDE 251.

241 Community Health (3) (3) Community health problems and services considered on the local, national, and international levels. Includes practical experience.

242 Organization and Administration of Public Health (3) (3) A study of the components, functions, and interrelationships that are parts of any program and/or organization in public health.

301 Health for the Elementary Grades (3) (3) Principles and procedures for meeting the health needs of the child.

302 Addictives for Health Professionals (3) (3) Thorough study of alcohol, drugs, tobacco and other addictive practices in relation to the individual and society.

303 Nutrition (2) (2) Practical approach to the role foods play in growth and development. Food fads and fallacies.

304 Family Life and Sex Education (3) (3) Basic concepts and objectives of such a program for students at different age levels. Organizing, launching, and evaluating the program.

305 School Health Program (3) (3) School health services, environment, health instruction, and organization and administration of a school health program.

306 Preparation for Classroom Teaching (3) (3) A comprehensive study of the materials available in health education and the techniques for their prompt implementation. PREREQ for health and physical education majors: HED 202, 305.

307 Preparation for Teaching Health (3) (3) A comprehensive study of the materials available in health education and the techniques for their proper implementation. PREREQ for health education majors: HED 201, 302, 305.

308 Field Experience in Health Education (2) (1) Observations and aid experience of classroom teaching in health education.

341 Chronic and Communicable Disease (3) (3) The study of diseases, causes, effects and control.

342 Preparation for Field Work (3) (3) A comprehensive study of those areas leading to a successful field experience.

401 Seminar in Health Education (3) (3) Concepts in health education, with emphasis on classroom problems, readings, and discussion. Mandated for health education majors with senior status.

402 Workshop in Family Life and Sex Education (3) (3) Basic concepts and objectives of such a program for students at different age levels. Organizing, launching, and evaluating the program. Summer only.

403 School/Community Health Workshop (3) (3) A study of common problems relating to health for the home, school, and community.

404 Student Teaching—Health (12) Practical classroom experience in teaching health education.

441 Field Experience Public Health (12) Practical field experience working in some facet of the public health field.

PHYSICAL EDUCATION

Symbol: PED

The first number in parentheses shows number of class meetings per week; the second one shows semester hours of credit.

101-102 Physical Activities I-II (2) (1) (2) (1) A program of selected activities from the categories of: aquiatics; individual sports; physical conditioning; team sports.

103-106-108-109 Elective Physical Activities III-IV-V-VI (2) (1) for each course Free-elective activities selected from categories listed under 101-102.

107 Music and Movement (2) (1) A course which examines and develops the perception of rhythm through movement.

110 Soccer I/Wrestling (Men) (3) (1)

111 Soccer/Basketball (Women) (3) (1) Emphasis is placed upon fundamental skills and tactics of each sport, accomplished through drills and game situations.

112 Gymnastics I (Men) (3) (1) Apparatus skills, stunts, tumbling, and pyramids for teaching all age levels.

113 Gymnastics I (Women) (3) (3) Apparatus skills, stunts, tumbling, and pyramids for teaching at all age levels.

140 Aquatics Fundamentals (3) (1) Basic principles of swimming are studied with an emphasis on the mechanical analysis and practice of all strokes; introduction to diving and competitive swimming; safety and survival techniques; water games.

141 Social, Folk, Square Dance (3) (1) Experience in the basic (50) square dance calls, international folk dance and traditional ballroom dances.

142 Tennis/Badminton (3) (1) An explanation of the mechanics and specific skills of both tennis and badminton. Emphasis is placed on conceptual understanding and personal skill development through a variety of teaching progressions and methods.

143 Golf/Archery/Recreational Games (3) (1)

200 Elementary School Physical Eucation (3) (2) Theoretical and practical approach for the teaching of physical activities to elementary school children by the classroom teacher.

210 Basketball/Baseball (Men) (3) (1)

211 Hockey and Volleyball (Women) (3) (1) Basic fundamentals, tactics, and rules. Modified active games. Geared to teaching physical education classes.

212 Football and Track/Field (Men) (3) (1)

213 Lacrosse and Track/Field (Women) (3) (1) Lacrosse: Basic fundamentals, tactics, and rules. Mdified active games. Geared to teaching physical education classes. Track and field: Principles of running, throwing, jumping. Modification needed for physical education classes. Self-testing.

214 Physical Conditioning/Volleyball (Men) (3) (1)

215 Modern Dance I (3) (1) Basic course offering the fundamentals of technique and improvisation.

242 Fundamental Movement and Elementary Rhythms (3) (1) Fundamental locomotor and axial movement; music and rhythm in relationship. Rhythmical activities for the elementary program, with suggested teaching methods.

243 Preparation for Teaching Activities (3) (1) Practice in teaching in all areas of physical education and development of appropriate lesson plans.

250 Principles of Recreation (2) (2) Historical background of the play movement: theoretical explanations of play; the need for it and its place in education. Methods of recreation leadership.

251 Physical Activity for Special Children (3) (3) A course of adapted physical education. Common childhood disabilities are studied, with emphasis on problems of a chronic nature. Also screening and practical training, working with physically and mentally handicapped children.

308 Officiating (Men) (9 weeks) (3) (1/2) Ethics and techniques of officiating. Students may select from baseball, basketball, football or soccer.

310 Preparation for Teaching Secondary Physical Education (Men) (3) (1) Each student develops a physical education activity unit and teaches one lesson from that unit. Further opportunities for familiarization with various teaching methods and styles through observation, demonstration lessons, and actual practice.

311 Preparation for Teaching Secondary Physical Education (Women) (3) (1) See description for PED 310.

312 Tennis II (Men) (9 weeks) (3) (1/2) PREREQ: PED 142

313 Tennis II (Women) (9 weeks) (3) (1/2) PREREQ: PED 142

314 Track and Field II (Men) (9 weeks) (3) (1/2) PREREQ: PED 212.

315 Track and Field II (Women) (9 weeks) (3) (1/2) PREREQ: PED 213.

316 Basketball II (Men) (9 weeks) (3) (1/2) PREREQ: PED 210.

317 Basketball II (Women) (9 weeks) (3) (1/2) PREREQ: PED 111.

318 Lacrosse I (Men) (9 weeks) (3) (1/2)

319 Lacrosse II (Women) (9 weeks) (3) (1/2) PREREQ: PED 213.

320 Baseball (Men) (9 weeks) (3) (1/2) PREREQ: PED 210.

321 Volleyball II (Women) (9 weeks) (3) (1/2) PREREQ: PED 211.

322 Soccer II (Men) (9 weeks) (3) (1/2) PREREQ: PED 110.

323 Hockey II (Women) (9 weeks) (1/2) Individual and team tactics, and special situations. Basic knowledge needed for coaching hockey. PREREQ: PED 211.

324 Football (Men) (9 weeks) (3) (1/2)

325 Officiating I (Women) (9 weeks) (3) (1/2) Ethics and techniques of officiating hockey or basketball.

326 Wrestling II (Men) (9 weeks) (3) (1/2) PREREQ: PED 110.

327 Gymnastics II (Women) (3) (1) Teaching and coaching techniques for apparatus stunts, tumbling, pyramids. PREREQ: PED 113.

328 Gymnastics II (Men) (9 weeks) (3) (1/2) Advanced work on gymnastics apparatus including trampoline, with emphasis on teaching progression, spotting techniques, and class safety. PREREQ: PED 112.

330 Life Saving (Coed) (9 weeks) (3) (1/2) Review of basic aquatic skills. Emphasis on lifesaving practices, safety and survival techniques. Successful completion of this course may lead to senior lifesaving certification by the American Red Cross.

331 Water Safety Instruction (3) (2) Leadership procedure in aquatics activities for schools and school camps. Swimming strokes and life saving techniques are analyzed. Opportunity to qualify as a waterfront safety instructor.

340 Self Testing Activities in Elementary School Physical Education (2) (2) Theory and methods to present activities to children on an individualized self-testing basis. The opportunity is provided for direct contact with children to try out the self-testing activities.

341 Advanced Social and Square Dance (3) (1) Experience with square dancing beyond the 50 basic calls, opportunity for calling squares, and more intricate social dance styles.

342 Advanced Folk Dance (3) (1) International folk dances requiring an advanced degree of difficulty with step patterns, formations and styling. Opportunities for teaching, resource material and performance.

343 Modern Dance II (3) (1) Continuation and development of the training offered in PED 215. Emphasis is placed on longer combinations and more complex problem-solving themes. PREREQ: PED 215.

344 History of Dance (3) (2) Evaluation of dance as an art form in relation to man and his society. Physiological, sociological, and psychological implications; dance forms and types. Film and other materials focus on parallel developments in related arts.

345 Dance Production Workshop I (3) (1) Survey of six styles of dance performance: ballet, modern, jazz, Afro-American, tap, folk. Each area is studied independently

of the other areas. All are integrated into a final performance, created and directed by the students and available for school, college, and community presentation.

346 Dance Production Workshop II (3) (1) An extension of PED 345. Emphasis is on production elements and a final, student-created and directed performance, available for school, college, and community presentations.

347 Summer Dance Workshop (Technique Emphasis or Composition) (2) (1) Provides new experiences and reinforces known experiences in areas of modern dance techniques, ballet techniques, dance composition, and analysis of teaching materials.

350 Physical Education for Elementary Grades (3) (3) Students are assigned to elementary schools in the service area for teaching and observation. Course contains weekly seminar on theory and problems. PREREQ: PED 243.

351 Evaluation in Health and Physical Education (3) (3) Selecting, administering, scoring, and evaluating tests of physical fitness, general motor ability, motor educability, and skill and knowledge.

352 Applied Physiology (3) (3) The application of physiological principles to physical education.

353 Organization and Administration of Physical Education and Athletics (3) (3) Principles of program building in curricular and extracurricular physical education; organizing, administering, and supervising intramural and interscholastic athletic programs.

354 Elementary Physical Education Curriculum (3) (3) Constructing and evaluating the curriculum in elementary physical education. Progression and continuity, along with developmental needs and interests of children, are considered.

355 Education for Safe Living (3) (3) Survey of safety education. History, philosophy, and psychology of accident prevention.

356 Principles and Practices of Driver Education and Traffic Safety (3) (3) Techniques of assessing the knowledge, skill and psycho-physical characteristics of a beginning driver; the relation of these to the safe operation of a motor vehicle.

357 Therapeutics (6) (3) A course for those interested in becoming specialized in adapted physical education and athletic training. Experience in the use of exercise techniques and physical modalities. The psychological basis, indications, and contraindications are presented. PREREQ: HED 271.

358 Advanced Athletic Training I (3) (3) A course designed to provide practice experiences in the application of various methods in management of athletic injuries and a review of preventive measures and medical management of athletic injuries. PREREQ: PED 357.

359 Advanced Athletic Training II (3) (3) A review of special problems. PREREQ: PED 358.

360 Pathology of Special Education (2) (2) Considerations of the commonly seen disabling conditions in special physical education with regard to anatomical and physiological changes and differences in their prognosis.

361 Kinesiology (2) (2) Basic fundamentals of movement, articulation, muscular actions; analysis of the related principles of mechanics.

367 Arts and Crafts in Recreation (3) (3) Theoretical and practical applications of arts and crafts as recreative outlets for all age groups. Arts and crafts materials customarily found in school, camp, and community recreation programs are used.

PED 368 Leadership in Recreation (2) (2) Basic concepts and leadership techniques, studied in various recreation settings. Opportunities for students to practice and develop their own techniques through work in community recreation agencies.

369 Principles of ROPE (3) (3) History, philosophical background, objectives, educational strategies, curriculum, safety considerations, and administration of an adventure-based outdoor pursuits program.

370 Camping and Outing (3) (3) Theory and practice in camping and outing programs, approached from viewpoints of the camper, counselor, supervisor, specialists, and director.

371 Mini Outward Bound (2) (1) An Outward Bound experience. Exposes the student to the Outward Bound philosophy, curriculum, and methodology.

378 Facilities and Equipment in Health and Physical Education (2) (2) Principles and procedures of planning. Practical and functional design of indoor and outdoor areas and facilities.

440 Movement Education in Elementary Physical Education (2) (2) Teaching techniques and subject matter for a program of movement education suitable for children. Designed to help children develop awareness of the body and space in order to develop effective movement patterns.

441 Principles of Choreography (3) (1) The art of dance composition. Basic elements of space, rhythms, and motion dynamics. Students design original movement, progressing from simple to complex solo and group forms. PREREQ: PED 215.

442 Dance Notation Improvisation (3) (1) Designed to give the student exposure to improvisational themes and elementary skills of recording movement through written symbols.

443 Dance and Theatre Arts (3) (1) Advanced level modern dance techniques, with emphasis on all aspects of production: accompaniments, costume, sets and lighting.

449 Learning on the Move (3) (3) A combination of movement education and perceptual motor theory and activities to help teachers and parents to guide the children to maximum developmental potential. Pre-school, nursery, and kindergarten ages.

450 Methods and Materials of Safety Education (3) (3) A study of the total safety program, with emphasis on the teaching of safety. Each student prepares a practice lesson.

451 History and Philosophy of Health and Physical Education (2) (2) A study of past and present concepts of physical education; philosophy and principles of modern physical education programs.

452 Principles of Coaching (2) (2) Principles and methods of coaching sports in the school program.

453 Motor Learning (2) (2) A study of the theories of learning in relation to the acquisition of motor skills.

454 Theories and Practices of Conditioning and Training (2) (2) The application of modern principles to the training and conditioning of athletes. The students will design a year-round conditioning program that considers age and level of competition as well as individual development differences.

455 Officiating II (Women) (2) (2) Ethics and techniques of officiating sports other than hockey and basketball. PREREQ: PED 325.

456 Preparation for Teaching Driver Education (3) (3) An advanced course to prepare students tc teach driver education in the secondary schools.

457 Psychology of Physical Disability (3) (3) A course designed for students in special education. Psychology applied to physical disability; personal and cultural implications of handicaps; the psychodynamics of disability.

458 Physical Disabilities of Childhood (2) (2) A course designed for students in special education. Common orthopedic and neurological disabilities of childhood, espe-

cially chronic deviations. Emphasis is on understanding the medical aspects and problems of rehabilitation.

459 Athletic Injury Management I (3) (3) A practical course designed to provide the student with guided exposure to experiences normally found in an athletic training program supporting fall and winter sports. PREREQ: PED 359.

460 Athletic Injury Management II (3) (3) A practical course designed to provide the student with guided exposures to experiences normally found in the athletic training program supporting winter and spring sports. PREREQ: PED 459.

467 Supervised Camping Leadership (Arranged) (3) A program in camp leadership at children's summer camps. PREREQ: consent of instructor.

490 Student Teaching (Men) (12) Observation and participation in teaching situations in the junior and senior high schools under qualified cooperating teachers and college supervisors.

History

Robert E. Carlson,
Chairperson

W. Bennett Peters,
Assistant Chairperson

PROFESSORS: Carlson, Crowley, Foster, Fox, Harding, Johnson, Riley, Schalck, Sessa, Soldon, Stuart, Swan, Turner, Young
ASSOCIATE PROFESSORS: Burgwyn, Doyle, O'Grady, Shaffer, Shur, Webster
ASSISTANT PROFESSORS: Heston, Peters

The student of history seeks to recreate the past (or, more precisely, as much of it as possible) not only rationally to explain and understand the past for its own sake, but also to identify himself and his age with earlier times. He is concerned with the origins and development of and relationships between past people and events and, from the multiplicity of credible and sometimes conflicting evidence, renders judgments on causation and consequences. He seeks to achieve a sense of the past. Among the careers open to history majors are the law, government service, teaching, research, journalism, and business. Indeed, a strong preparation in history can lead to possibilities in virtually every field of endeavor.

BACHELOR OF ARTS—HISTORY

1.	General Requirements, see page 60	44 s.h.
2.	Foreign Language Requirement	6 s.h.
3.	Social and Behavioral Sciences Core Requirements, see page 61	21 s.h.
4.	History Concentration Requirements HIS 152 Senior Seminar (HIS 400) Group 1 American History (6 hrs.) Group 2 European History (3 hrs.) Group 3 World and Regional History (3 hrs.) History Electives (6 hrs.)	24 s.h.
5.	Cognate Courses Five cognate courses selected from literature, art, philosophy. Three of these may be credited to General Requirements. In that event, the student will extend his free elective area to 27 s.h.	6-15 s.h.
6.	Free Electives	18-27 s.h.

B.S. IN EDUCATION DEGREES

A. SOCIAL STUDIES

1.	General Requirements, see page 60	44 s.h.
2.	Professional Education Requirements, see page	29 s.h.
3.	Social and Behavioral Sciences Core Requirements, see page 61	21 s.h.
4.	Specialized Preparation HIS 152 Senior Seminar (HIS 400) Additional 18 s.h. by advisement.	24 s.h.
5.	Cognate Courses Two literature courses. One of these may be credited to General Requirements. In that event the student will extend his free electives to 7 s.h.	3-6 s.h.
6.	Free Electives	4-7 s.h.

B. SOCIAL STUDIES-HISTORY (AMERICAN HISTORY OR WORLD CULTURES)

1.	General Requirements, see page 60	44 s.h.
2.	Professional Education Requirements, see page 194	29 s.h.
3.	Social and Behavioral Sciences Core Requirements, see page 61	21 s.h.
4.	History Concentration Requirements HIS 152 Senior Seminar (HIS 400) Group 1 American History (6 hrs.) Group 2 European History (6 hrs.) Group 3 World and Regional History (6 hrs.)	24 s.h.
5.	Cognate Courses Two literature courses. One of these may be credited to General Requirements. In that event the student will extend his free electives to 7 s.h.	3-6 s.h.
6.	Free Electives	4-7 s.h.

C. SOCIAL STUDIES-ETHNIC STUDIES CONCENTRATION

1. General Requirements, see page 60 — 44 s.h.
2. Professional Education Requirements, see page 194 — 29 s.h.
3. Social and Behavioral Sciences Core Requirements, see page 61 — 21 s.h.
4. Specialized Preparation — 24 s.h.
   HIS 152
   Senior Seminar (HIS 400)
   Group A. History (9 s.h.)
   Choose from HIS 145, 161, 163, 310, 311, 312, 354, 362, 363, 364, 370, 371, 373, 410
   Group B. Social Sciences (9 s.h.)
   Teaching in Urban Schools (EDU 361)
   Choose two courses from ANT 326; ECO 349, 350; PSC 252; PSY 254; SOC 335, 342; SSC 201, 380
5. Electives — 11 s.h.

GROUPS 1, 2, AND 3

GROUP 1 AMERICAN HISTORY
HIS 151, 152, 344, 345, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 370, 371, 372, 373, SSC 201

GROUP 2 EUROPEAN HISTORY
HIS 219, 220, 320, 321, 322, 323, 324, 325, 326, 330, 331, 333, 334, 335, 336, 345, 346, 347

GROUP 3 WORLD AND REGIONAL HISTORY
HIS 101, 102, 145, 218, 301, 302, 305, 306, 309, 310, 311, 312, 315, 316, 371

STUDENTS IN ALL PROGRAMS GIVEN IN THE HISTORY DEPARTMENT NOTE: Under General and/or Social and Behavioral Sciences Core Requirements, all students must complete HIS 101, 102, 151, and 152.

COURSE DESCRIPTIONS

Symbol: HIS unless otherwise shown

GENERAL

SSC 331 Teaching Social Studies in Secondary Schools (3) Methods and materials of teaching social studies for prospective secondary school teachers. Emphasis is on the "New Social Studies" and instructional materials drawn from the social sciences. Taken by social-science education majors in their junior year.

SSC 380 Ethnic Cultures Workshop (3) A summer workshop sponsored jointly by the Schools of Arts and Letters and Social and Behavioral Sciences. Contributions of ethnic groups to the United States culture are considered. Open only to juniors and seniors. PREREQ: Permission of the dean of the School of Social and Behavioral Sciences.

INTERDISCIPLINARY

SSC 201 The American Indian and the Frontier (3) An interdisciplinary approach, geographic as well as historical, to the interaction between white and American Indian cultures as the two peoples met and struggled for control of the land mass of North America.

HISTORY

101 History of Civilization I (3) Man's cultural elements and social institutions in the West and the East from earliest times through the Renaissance.

102 History of Civilization II (3) Developments in civilizations from 1500 to the present, with emphasis on Western Civilization and its interrelationships with the non-Western world.

120 Impact of War on European Society (3) An examination of the interrelationship of warfare and society in Europe from the feudal period to the present.

122 Major Figures in European History (3) A study of the major figures in European history (1450-1970) and their interaction with the dynamic forces of their times.

124 Currents in Modern European Thought (3) An examination of the ideas and ideologies which provided the rationale for governments, movements, and institutions of modern Europe.

130 Studies in the History and Culture of the Non-Western World (Asia and Africa) (3) Team-taught interdisciplinary approach. India, sub-Saharan Africa emphasized.

131 Studies in the History and Culture of the Non-Western World (Middle East and Latin America) (3) Developments which have shaped Latin American and Middle Eastern cultures.

140 Emerging Nations (3) A survey of non-Western societies and the impact of Westernization on the traditional cultures of Africa, or Asia, or Latin America, or the Middle East. Area focus varies with instructor.

145 The Jew in History (3) Review of the four thousand years and five civilizations which have welcomed the Jewish people; emphasis on the Jews in contemporary society

151 History of United States I (3) The social, economic, political, and intellectual development of the United States from the beginning of the Colonial period through the Civil War.

152 History of United States II (3) The social, economic, political, and intellectual development of the United States from 1865 to the present, with emphasis on the new industrialism and on foreign affairs.

161 Violence in America (3) A study of violence in American society both as an instrument of change and a method of social control.

163 American Minorities (3) A survey of racial, religious, and ethnic minorities and their struggles and successes in the United States.

164 Depression Decade: The Thirties (3) Selected problems of the depression decade, with emphasis on the political, social and personal reactions to the period.

165 The Turbulent Sixties (3) Examination of the stress and conflict in American politics, arts, literature, and society of the 1960's.

166 20th Century America (3) A survey of the United States since 1898. Emergence of the nation as a world power is stressed.

218 The Ancient World (3) Classical Greece and Rome with consideration of economic, social, intellectual, and political history. Selected writings of the ancients.

219 Medieval Europe (3) Western Europe from the fall of Rome to approximately 1300. Economic, social, political, and intellectual developments in the major kingdoms of the West; the history of the Universal Church.

220 Renaissance and Reformation (3) Political, economic, social, and cultural forces which emerged in Europe, 1300 to 1650. The evolution of modern states and the rise of the middle class.

301 History of South Asia (3) A historical study of developments on the Indian subcontinent (India and Pakistan), the course also considers those areas of Southeast Asia (Burma and Thailand) which have been traditionally influenced by the course of Indian events.

302 (also ANT 327) Cultures and Peoples of India (3) Hindu and Muslim social structures; village-based societies; religious, cultural, social structures, urbanization; Indian minority social patterns (Parsi, Jewish, Christian).

305 History of East Asia (3) Survey of the historical and cultural background of China, Japan, and Korea. Emphasis is given to the significance of the modern period of East Asia and its impact on world affairs.

306 20th Century Japan (3) Role of Japan in Asian and World Affairs from the Meiji Restoration of 1865 through World War II and until the present time, ending with an attempt to look into the future progress of Japan as an Asian power.

308 Byzantium and the Crusades (3) The history of the Byzantine state from the acceptance of Christianity to its demise in 1453. The impact of the Crusades on Byzantium and her relations with the Moslem world.

309 History of the Middle East (3) Recent history of the major middle Eastern countries. Geographical, cultural, economic, and religious factors which have influenced the history of the area. Special attention to Middle East problems which affect international relations.

310 The Arab and the Jew (3) Cultural and historical background and events which have shaped the present Arabic and Jewish views; emphasis will be placed on their current relations with each other.

311 History of Africa to 1800 (3) A survey of the traditional culture and of the historical development of the African continent prior to the 19th-century. Emphasis is upon the length and diversity of Africa's history prior to European colonization.

312 History of Sub-Saharan Africa Since 1800 (3) A survey of Black Africa's development in the 19th and 20th centuries. Emphasis is upon Africa's colonial experience as the background for the emergence of independent Africa.

315 History of Latin America to 1825 (3) Pre-Columbian period, colonial Latin America and movements for independence; Indian, European, and African backgrounds; government, economy, society, religion, culture, and enlightenment. Interaction of diverse cultures in New World.

316 History of Latin America Since 1825 (3) Latin America in 19th and 20th centuries; liberalism, conservatism, dictatorship, revolution, socialism, industrialization, agrarian reform, cultural-intellectual achievements, and international relations. Topical approach, using individual countries as case-history illustrations.

320 Women in Modern Europe (3) Lives and careers of women in the 19th and early 20th centuries through autobiographies. The problem of women's self-image and sense of identity.

321 History of England to 1688 (3) The British people and their institutions from Roman times to the Glorious Revolution, with primary emphasis on the Tudor and Stuart periods.

322 History of England Since 1688 (3) England as a world leader during the Commercial and Industrial Revolutions, the evolution of the democratic process, and the emergence of liberalism followed by the democratic welfare state.

323 Modern Germany (3) Germany in the 19th and 20th centuries: Napoleonic era, rise of Prussia, nationalism and unification, imperialism and World War I, National Socialism, World War II, and divided Germany.

324 Russian History to 1917 (3) Russian history from 9th century Kiev to the end of the Imperial period. Major emphasis on the continuing religious, economic, social, and political tradition peculiar to the Russian State.

325 Soviet Russia (3) Political, economic, social, and cultural aspects of Soviet society in the light of traditional Russian patterns and the goals of Communism.

326 History of Modern Italy (3) A study of Italian unification, the Era of Liberalism, Fascism, and post World War II developments.

330 Conflicts in Modern Europe (3) Power politics in Europe; alliances and counter-alliances; imperialism; first World War and Versailles peace settlements; emergence of totalitarian ideologies.

331 20th Century Europe (3) European fascism and communism; totalitarianism confronts liberalism; interaction between domestic politics and foreign policy; polarization of European politics; disintegration of the political institutions of the traditional state.

333 European Economic History (3) European demographic and technological change; trade unions; agriculture; trade; the entrepreneur; distribution of income and welfare from 10th century to now.

334 European Intellectual History (1250-1800) (3) The development of Western thought and culture from the High Middle Ages to the origins of Romanticism and Democracy.

335 European Intellectual History Since 1800 (3) Ideas and the arts in modern European history, from Romanticism to Existentialism.

336 The European City (3) Urban life in Europe from Periclean Athens to now. Interaction of people with their material environment.

344 History of Pennsylvania (3) The founding and development of Pennsylvania from its Colonial beginnings to the present, with emphasis on the relation of the past to the present.

345 The Status of Women in Two Worlds (3) Comparison of the history and present status of women under the 20th century's two major political systems: communism and capitalism.

346 Jesus and the 20th Century (3) Jesus' significance seen through "The Historical Jesus School," scientific socialism, nationalism, colonialism, existentialism, liberalism, neo-orthodoxy, ecumenicity, charisma, "the Jesus People," Marxist-Christian dialogue.

347 Jesus and Marx (3) The relationship between Christianity and Marxism from the confrontation and contradiction of the nineteenth century to the coexistence and cooperation of the twentieth century.

351 Women in America (3) American women's daily routines, social roles, and search for rights and identity since colonial days. Recent goals, values, and conflicts.

352 Modern American Military History (3) The role of the American military in shaping the course of the nation in the twentieth century.

353 (also ANT 260) Artifacts and Culture (3) Patterns of American civilization, explored through study of the material culture.

354 U.S. Labor History (3) History and analysis of labor organizations: labor and government; labor and political parties; women and children and minority groups in labor organizations; the strike; technology and labor; Big Labor.

355 American Intellectual History (3) Political and economic thought, theology, science, philosophy, literature.

356 U.S. Environmental History (3) Three centuries of change in American attitudes and actions toward the environment, with emphasis upon the roots and development of today's ecology crisis.

357 Diplomatic History of the United States (3) The theory and practice of American diplomacy from Colonial times to the present with emphasis on the 20th century.

358 Economic History of the United States (3) The economic development of the American nation as it evolved from a frontier, agricultural country into an urban, industrial power.

359 History of the American Frontier (3) The westward movement and expansion from Colonial times to the end of the 19th century. The frontier forces which shaped American democratic institutions and ideals.

360 Technology and American Life (3) Promises and practices of American life in response to the interaction of American forms, values and scientific-technological change from the colonial period to the present.

361 Constitutional History of the United States (3) The development of the Constitution of the United States from the Philadelphia convention to the present with emphasis on major supreme court decisions.

362 Social and Cultural History of the United States (3) The evolution of American society with emphasis on the impact of improving material conditions upon labor, the arts, education, religion, social mores, and family life. The changing status of women, blacks and immigrants.

363 History of the South (3) The social, economic, political, and intellectual forces that have made the American South.

364 U.S. Urban History (3) A survey of the rise of the American city from early Philadelphia to the modern metropolis. The recurring themes of growth, immigration, social mobility, city politics, city planning, urbanism, and suburbanism.

370 American Indians (3) A survey of Indian civilization on the continent of North America and the confrontation of this civilization with white culture.

371 Africans in the New World (3) A comparative study of the slavery systems of the New World and their part in shaping contemporary relations in the United States and Latin America.

372 Topics in Afro-American History (3) Topics vary each semester. Emphasis on student research and participation in discussions. PREREQ: HIS 373 or consent of instructor.

373 Afro-American History (3) The Afro-American: origins, period of slavery, industrialization of the South, migration to northern urban centers, civil rights movement, and the evolution of "Black Power."

400 Senior Seminar in History (3) Research in history. Methodology, bibliography, and presentation, both written and oral. The research paper for the seminar must be acceptable as a required departmental senior research paper. Required of all history majors.

410 Independent Studies in History (1 to 3) Research projects, reports, readings in history. Open to seniors only. PREREQ: Permission of department chairperson.

450 Internship in History (1 to 3)

460 Field Studies in History (3)

Instructional Media Education

Richard P. Weagley,
Chairperson

PROFESSORS: Strayer, Weagley
ASSOCIATE PROFESSORS: Redmond, Spiecker
ASSISTANT PROFESSORS: Reis, Steinmetz

West Chester's program in this field is at the graduate level. See the Graduate Studies Bulletin for details. The following undergraduate courses are available through the Department of Instructional Media Education.

COURSE DESCRIPTIONS

Symbol: EDM

300 Introduction to Instructional Communications (3) Techniques, materials and equipment, and the development of skills in their use in teaching. Class meets three times weekly.

450 Design and Production of Visual Communication Materials (3) Exploration of visual communication materials through use of research materials, demonstrations, various production techniques. The student designs and produces visual instructional materials.

460 Basic Photography (3) Workshop-type course stressing the photographic processes. Camera handling and film and print processing included. Students must have complex camera and must purchase personal developing equipment.

470 Motion Picture Production (3) Scripting and shooting of super 8 film, including magnetic sound recording and reproduction.

475 Sound Reproduction in Educational Communication (3) Theory and practice in sound recording and reproduction and their application in education.

480 Closed Circuit Television Production (3) A production course emphasizing the practical work of all aspects of closed-circuit television. Preparation of scripts, graphics, animations, photos, films, film loops, slides, sound recordings, models, guides for learning and teaching, lighting, staging, electronic technical information.

Latin-American and Russian Studies

Offered jointly by the Schools of Arts and Letters and Social and Behavioral Sciences.

Any student in the college, regardless of his or her area of specialization, may earn transcript recognition and a letter of verification in Latin-American Studies or Russian Studies after satisfactory completion of 21 semester hours of work, distributed as follows:

I. Latin American Studies — 21 semester hours
Required: Either **A** or **B**

A. 1. Spanish or Portuguese (Intermediate level or above) — 6 s.h.
2. Latin-American History — 6 s.h.

OR

B. 1. Latin-American History — 6 s.h.
2. Latin-American Civilization and Thought — 6 s.h.

Electives: As advised, from Latin-American-oriented courses offered by the Departments of Sociology, Political Science, Business and Economics, Education, Education, Fine Arts, or other departments of WCSC. In track A, one three (3) credit course must be devoted to literature, art history, or music — 9 s.h

For advisement, see Professor Nunez in the Department of Foreign Languages or Professor Crowley in the Department of History.

II. Russian Studies — 21 semester hours
Required: Either **A** or **B**

A. 1. Russian language (Intermediate level or above) — 6 s.h.
2. Russian History — 6 s.h.

OR

B. 1. Russian History — 6 s.h.
2. Russian Civilization and Thought — 6 s.h.

Electives: — 9 s.h.
As advised, from Russian-oriented courses offered by the Departments of Geography and Planning, Anthropology/Sociology, Political Science, Business and Economics, Education, Fine Arts, or other departments of WCSC. In track A, one three (3) credit course must be devoted to literature, art history, or music.

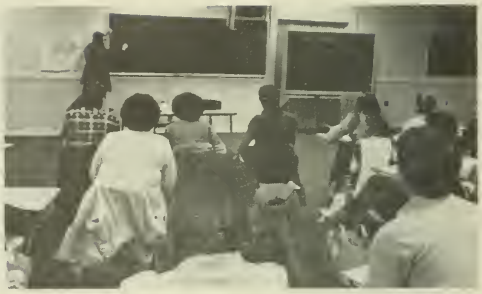
For advisement, see Professor Glumac in the Department of Foreign Languages or Professor Swan in the History Department.

A student should maintain a 3.0 average in area-studies courses to be recommended for graduate work in the area-studies concentration he chooses.

Mathematical Sciences

Richard G. Branton,
Chairperson

Frank E. Milliman,
Assistant Chairperson



PROFESSORS: Branton, Filano, Grosshans, Koh, L'heureux, Mandelbaum, Montemuro
ASSOCIATE PROFESSORS: Ahlborn, Egan, Fasnacht, Kerrigan, Milliman, Moser, Seybold, Verno, Weaver, Weiss
ASSISTANT PROFESSORS: Fabrey, Hodgson, Morgan, Stanley, Wiener

The major in mathematics begins with a basic core program including computer science, foundations, and calculus. This is followed by a required sequence of courses covering the major areas of mathematics. Additional specialization in specific branches of mathematics is possible through available electives.

BACHELOR OF ARTS—MATHEMATICS

The B.A. program in mathematics enables each student to receive the basic preparation required for the career of his choice. Among these are college and university teaching, research and other service in government and industry, and computer programming. In all cases each student receives a sound preparation for graduate study in the field of mathematics.

Beyond meeting the general requirements of 44 s.h., the major in this program pursues the following curriculum:

Foreign Language Requirement **6 s.h.**
Through the Intermediate II level in French, German, or Russian.

Related Requirements
CSC 141
PHY 101-102:
Electives (12 s.h.)

This 12-hour elective program in mathematics or related areas must be approved by the department at the time of junior standing.

Mathematics Concentration Requirements
MAT 110, 141, 142, 241, 242, 411, 412, 441, 442; electives in mathematics (12 s.h.)

Electives to complete 128 s.h.

BACHELOR OF ARTS—MATHEMATICS COMPUTER SCIENCE CONCENTRATION

The major who selects the computer science concentration also meets the general requirements of 44 s.h. and the foreign language requirement given above. Specifically, the requirements are:

Requirements in Mathematics and Science
Mathematics
MAT 110, 141, 142, 241, 242, 343, 421, 425; electives in mathematics (6 s.h.)

Science
PHY 101-102

Computer Science Requirements
CSC 141, 142, 241, 242, 490 (3 s.h.); electives in computer science (6 s.h.)

Electives to complete 128 sh.

BACHELOR OF SCIENCE—COMPUTER AND INFORMATION SCIENCES

Prepares the student for a career in the field of computer and information sciences. Course work is taken in computer science, mathematics, and either business or another area of the student's choice. In addition, the student gains valuable on-the-job experience through an internship program with local industry or business. Beyond meeting the general requirements of 44 s.h., the student pursues a core curriculum and one of the following 3 tracks:

Information Systems—prepares the student to use the computer as a tool for management in business and industry. (Systems Analyst)
Computer Systems—prepares the student to engage in the design, development and effective use of computer systems through emphasis on software and computer system structure. (Systems Programmer)
Computer—Arts and Sciences—prepares the student to be an effective computer user in an area of his choice.

CORE CURRICULUM

COMPUTER SCIENCE REQUIREMENTS
CSC 141, 142, 241, 242, 361
MATHEMATICS REQUIREMENTS
MAT 161, 162, 261, 221
CIOPERATIVE EXPERIENCES
CSC 200, 300, 400

INFORMATION SYSTEMS TRACK REQUIREMENTS
CSC 321, BAC 201-202, BAD 201, BMK 221, ECO 231, ENG 268, 6 s.h. of electives in business, computer science, or mathematics, and electives to complete 128 s.h.
COMPUTER SYSTEMS TRACK REQUIREMENTS
CSC 331, 341, BAC 201, ENG 268, 9 s.h. of electives in computer science and mathematics, and electives to complete 128 s.h.
COMPUTER—ARTS AND SCIENCES TRACK REQUIREMENTS: Sequence of courses approved by Department of Mathematical Sciences and the appropriate academic department (21 s.h.), and electives to complete 128 s.h.

B.S. IN EDUCATION—MATHEMATICS

The major in this program meets the general requirements of 44 s.h., the professional education requirements of 29 s.h. (see page 000), and the following specialized requirements.

Requirements in Mathematics and Science

Mathematics
MAT 110, 141, 142, 241, 242, 231, 350 (credited to professional education), 411, 421, 441, 412, or 442; electives in mathematics 9 s.h.

Related Requirements
PHY 101-102

Electives to complete 128 s.h.

COURSE DESCRIPTIONS

MATHEMATICS

Symbol: MAT

101-102 Mathematics for Elementary Teachers I-II (3) (3) Formal development of the natural numbers, integers, rationals, reals, and complex numbers; probability; intuitive geometry. 101 must precede 102.

103 Introduction to Mathematics (3) An introduction to the nature and spirit of mathematics and its cultural significance.

105 College Algebra and Trigonometry (3) A unified course in algebra and trigonometry. PREREQ: High school algebra.

107-108 Calculus for Business (3) (3) Differential and integral calculus with emphasis on applications. Also includes the study of matrices, determinants, and linear programming using the simplex method. 107 must precede 108.

110 Foundations of Mathematics (3) Topics such as set theory, relations, induction, and the real number system are formally treated. Special topics such as number theory, intuitive geometry, probability, and congruences are examined in an informal setting.

121 Statistics (3) Basic concepts of statistics. Frequency distributions, measures of central tendency and variability, correlation, probability and theoretical distributions, significance of differences, and hypothesis testing. For non-mathematics majors.

121L Statistics/Lab (4) Basic concepts of statistics. Frequency distributions, measures of central tendency and variability, correlations, probability, distributions of random variables, estimation and hypothesis testing. Basic concepts of computer programming and use, using the BASIC language to aid in understanding and solving statistical problems.

141-142 Calculus I-II (3) (5) The calculus of real valued functions of a single real variable, including series. 141 must precede 142.

161-162-261 Applied Calculus I-II-III (4) (4) (4) Emphasis on problem solving and applications characterize this course in differential and integral calculus. When applicable, topics in finite mathematics are introduced to support the theory and application of the calculus. Must be taken in order.

209 Topics in Mathematics for the Elementary Teacher Introduction to programming in BASIC; computer uses for the classroom teacher; descriptive statistics with applications for teaching; and measurement of length, area, volume and temperature that focuses on the SI metric system with practice in the classroom. Additional topics in applied mathematics will be considered. PREREQ: MAT 102.

212 Algebra for Elementary Teachers (3) Formal structure of groups, rings, and fields with examples from the elementary curriculum. Topics from linear algebra including matrices, determinants, and linear programming. PREREQ: MAT 102.

221 Applied Statistics (3) Statistical analysis of data, hypothesis testing, regression analysis, and analysis of variance. PREREQ: CSC 101 or CSC 102 or CSC 141 and MAT 142 (or MAT 162.)

231 Foundations of Geometry (3) Geometric foundations from an advanced viewpoint. Topics are chosen from euclidean and non-euclidean geometries.

233 Geometry for Elementary Teachers (3) Modern informal approach to two and three-dimensional geometric figures, measurement, similarity, congruence, coordinate geometry, and the postulational method. PREREQ: MAT 102.

241-242 Calculus III-IV (4) (4) The calculus of several variables. Topics include the algebra and geometry of n-dimensional euclidean space, linear transformations, directional derivatives, integration and Stokes' Theorem. PREREQ: MAT 142. 241 must precede 242.

261 See 161-162

321 Combinatorics and Graph Theory (3) Introduction to set theory, graph theory, and combinatorial analysis. Includes relations, cardinality, elementary combinatorics, principles of inclusion and exclusion, recurrence relations, zero-one matrices, partitions, and Polya's Theorem. PREREQ: CSC 101 or CSC 141 and MAT 261 or MAT 242.

340 Analysis for Elementary Teachers (3) An intuitive introduction to theory of calculus: limits, continuity, the derivative and the integral. PREREQ: MAT 102 or consent of professor.

343 Differential Equations (3) The general theory of nth order, linear differential equations including existence and uniqueness criteria and linearity of the solution space. General solution techniques for variable coefficient equations, series solutions for variable coefficient equations, and study of systems of linear equations. PREREQ: MAT 241.

350 Foundations of Secondary Mathematics Education (3) Aims of mathematics instruction, implications of learning theory, contrast current mathematics programs, significance of research, identification of current issues, analysis of current approaches to the teaching of mathematics, lesson preparation, use of teacher-made and commercially available tests and instructional materials. PREREQ: MAT 241.

351 Teaching Mathematics in Elementary Schools I (3) Concepts, learning aids, syllabi, texts, and methods in elementary school mathematics. PREREQ: MAT 101-102.

352 Teaching Mathematics in Elementary Schools II (3) Techniques for teaching children concepts such as geometry in two and three dimensions, number sentences, graphing, ratios and percent, quantifiers, etc.; use of laboratory materials will be emphasized. PREREQ: MAT 351.

354 Techniques of Teaching Secondary School Mathematics (3) Techniques used in the presentation of specific mathematical concepts, associated materials, levels of questioning, motivational devices. Scope and sequence of secondary mathematics topics. Criteria for text evaluation. Preview of student teaching. PREREQ: MAT 350.

390 Seminar in Mathematics Education (3) Typical topics are: remedial programs, low achiever programs, materials for mathematics education, methodology in mathematics education, mathematics and the computer, theories of mathematics education, and analysis of research in mathematics education. PREREQ: MAT 351.

391 Seminar in Mathematics for Elementary Teachers (3) Topics selected for their relevance and value for the prospective elementary teacher. PREREQ: permission of department chairperson.

400 History of Mathematics for Elementary Teachers (3) History and development of elementary mathematics from primitive times to the discovery of the calculus. Problems of the period are considered. PREREQ: MAT 311, 331.

401 History of Mathematics (3) Development of mathematics from the Babylonian era to the 18th century. Some modern topics included. PREREQ: MAT 241.

405 Special Topics in Mathematics (3) Topics announced at the time of offering.

411-412 Algebra I-II (3) (3) Abstract algebra. Algebraic systems; groups; rings, integral domains, and fields, PREREQ: MAT 241. 411 must precede 412.

414 Theory of Numbers (3) Properties of the integers; primes, factorization, congruences, and quiadratic reciprocity. PREREQ: MAT 242.

416 Linear Algebra (3) Basic concepts and results of vector spaces including characteristic polynomials, Jordan forms, and inner product spaces. Applications to the

geometry of affine and euclidean spaces. PREREQ: MAT 411 or consent of instructor.

421-422 Mathematical Statistics I-II (3) (3) Probability theory, discrete and continuous random variables, distributions, moment generating functions. Statistical sampling theory, joint and interval estimation, test of hypothesis, regression, and correlation. PREREQ: MAT 242, 421 must precede 422.

425 Numerical Analysis (3) Numerical methods for the approximate solution of applied problems. Interpolation theory, curve fitting, approximate integration and numerical solution of differential equations. PREREQ: CSC 100 or CSC 101 or CSC 102 or CSC 141 and MAT 261 (or MAT 242).

427 Introduction to Optimization Techniques (3) Nature of optimization problems: deterministic and stochastic, discrete and continuous. Computer methods of solution: systematic and random search: linear quadratic, dynamic programming, and others. PREREQ: CSC 101 (or CSC 141) and MAT 261 (or MAT 242).

431 Topics in Geometry (3) Announced at time of offering. PREREQ: MAT 231.

432 Topology (3) Elements of point set topology. Separation axioms. Connectedness, compactness, and metrizability. PREREQ: MAT 242.

433 Differential Geometry (3) Classical differential geometry from a modern viewpoint. Curves and surfaces; shape operators; introduction to Riemann geometry. PREREQ: MAT 242.

441-442 Advanced Calculus I-II (3) (3) A rigorous treatment of the calculus of a single real variable. Topics in several real variables and an introduction to Lebesque integration. PREREQ: MAT 242. 441 must precede 442.

443-444 Applied Analysis I-II (3) (3) The techniques of analysis applied to problems in the physical sciences. Topics include: partial differential equations, orthogonal functions, complex integration, and conformal mapping. PREREQ: MAT 242. 443 must precede 444.

445 Complex Variables (3) Introduction to functions of a complex variable. Analytic functions, mappings, differentiation and integration, power series, and conformal mappings. PREREQ: MAT 242.

490 Seminar in Mathematics (3) Topics in mathematics selected for their significance and student-instructor interest. Independent study and student reports, oral and written. PREREQ: Senior Standing and consent of department chairperson.

493 Mathematical Modeling (3) The idea of a mathematical model of a real situation. Techniques and rationales of model building. Examples from the life, physical, and social sciences. PREREQ: MAT 242, 343.

COMPUTER SCIENCE

Symbol: CSC

101 Introduction to Computers (3) Programming and use of the computer for the student's various needs. The student writes a number of programs to accomplish a variety of computing tasks. Several computers and programming languages considered.

102 Introduction to Computers—Business (3) The business major learns to program and use the computer, and writes a number of business-related programs.

121 Computer Uses and Abuses (3) Introduction to the computer as a tool of society. Current and potential uses of the computer, and areas where its use or misuse could be detrimental to society if not properly controlled.

141-142-241-242 Computer Science I-II-III-IV (3) (4) (4) (4) The art and science of computing is introduced via an elementary language, usually **BASIC**. Structured

programming is studied via **COBOL**. The structure and operation of the computer is investigated in terms of its machine language. A comparative study is made of several procedural languages, such as **FORTRAN, APL, PL-I.** PREREQ: 2 years high school algebra.

200 Cooperative Operatives (2) The student works in an organization's computer center as a junior computer operator to gain familiarity with day-to-day activities and the jargon of the computer industry. PREREQ: CSC 142, at least 40 clock hours in the college's computer center's operations section, and approval of the Computer Science Committee.

221-222 Systems Design I-II (3) (3) Case studies acquaint the student with phases of design and implementation of an information system. The student is then assigned a project involving the complete system development cycle: analysis, design, programming, implementation. PREREQ: CSC 101 or CSC 102 or CSC 141. 221 must precede 222.

300 Cooperative Applications Programming (4) The student works in the applications programming section of an information systems group as a junior programmer to gain experience in programming and implementing small projects of use to the company. PREREQ: CSC 242 and approval of the Computer Science Committee.

311 Firmware (3) Hardware characteristics of general purpose digital computers and related equipment with emphasis on microprogramming. PREREQ: CSC 242.

321 Data Base Management Systems (3) Characteristics of generalized data management systems; survey of widely used systems; techniques for improving the interface between a manager and information he needs to make decisions through easy-to-use generalized reporting systems. PREREQ: CSC 242.

331 Operating Systems (3) Operating systems and their user characteristics. Maintenance of a complex operating system with emphasis on important trade-offs made in tuning the system. Core and file management, systems accounting, other user-related services. PREREQ: CSC 242.

335 On-Line Computing (3) Design, implementation, modification of information systems in an on-line environment. File management systems and data structures appropriate to real-time computing with emphasis on back-up and recovery techniques. PREREQ: CSC 242.

336 Data Communications (3) Hardware and software characteristics of equipment providing communication between computers and remote terminals. PREREQ: CSC 242.

341 Compiler Construction (3) Translation, loading, execution of a higher level language. Syntax analysis of simple expressions and statements. Organization of a compiler; design and implementation of a simple compiler. PREREQ: CSC 242.

350 Computers in Education (3) Technical knowledge and skills for successful use of the computer as a supportive tool of education in elementary and secondary school classes.

361 Simulation (3) Computer simulation utilizing logical, numerical, and Monte Carlo modeling to represent systems. Use of special languages to simulate actual systems. PREREQ: CSC 101 (or CSC 102 or CSC 141), MAT 261 (or MAT 242).

371 Computer Graphics (3) Construction and manipulation of prototypes for graphical display purposes. PREREQ: CSC 141 (or CSC 101 or CSC 102), MAT 261 (or MAT 242).

400 Cooperative Specialty (9) Working for an organization in his concentration area, the student applies his background to real problems. PREREQ: approval of Computer Science Committee.

490 Independent Project in Computer Science (1-5) The student designs and implements a software system. Project problems are drawn from local industry and college departments. A computer science faculty member supervises each project. PREREQ: consent of instructor.

495 Topics in Computer Science (3) Announced at time of offering. PREREQ: consent of instructor.

499 Independent Study in Computer Science (1-4) In conjunction with the instructor, the student selects study topics via literature search. PREREQ: consent of instructor.

Music

Charles A. Sprenkle,
Dean

Alexander Antonowich,
Associate Dean

Ira C. Singleton,
Associate Dean for Graduate Studies and Research

PROFESSORS: Antonowich, Barrow, Carey, Cohen, Johns, Merrell, Munger, Pennington, Pflieger, Schick, Schmidt, Singleton, Sprenkle, Stringer, Veleta, Wells, Wilkinson, Wright
ASSOCIATE PROFESSORS: Alt, Bedford, Belmain, Boerlin, Dorminy, Frenz, Friday, Gangemi, Haban, Hales, Klein, Laudermilch, McHugh, Markow, Murray, Nelson, Pandel, Pethes, Sheppard, Sullivan, Sweet, Vandever, Voois, Wagner, Weiss, Whitten, Williams
ASSISTANT PROFESSORS: Collins, Conaway, Guidetti, Hegvik, Northeimer, Roper, Southall, Vinquist (Part-time)
INSTRUCTORS: Breuninger (Part-time), Goebel (Part-time), Loiselle (Part-time), Lucas, Moss (Part-time), Smith (Part-time), Swartley

BACHELOR OF SCIENCE IN MUSIC EDUCATION

BACHELOR OF ARTS IN MUSIC

BACHELOR OF MUSIC

The School of Music offers three programs of study leading to undergraduate degrees:

(1) Bachelor of Science in Music Education: a balanced program of general, specialized, and professional courses leading to qualification for a Pennsylvania Instructional I Certificate to teach music in the elementary and secondary schools of Pennsylvania for three years. Three teaching concentration programs—general, instrumental, and vocal-choral—are provided.

(2) Bachelor of Arts in Music: a balanced program of courses which are general and specialized, providing a concentration area in either performance or a combination of music theory and music literature; structured for students desiring a liberal-arts education with a major in music.

(3) Bachelor of Music: a balanced program of courses which are general, specialized, and professional for the performing musician; structured for students desiring a college degree and interested in such areas as professional performance, studio teaching, and church music.

ENTRANCE REQUIREMENTS

Candidates for admission to the School of Music must meet the general requirements for admission as indicated under Admission to West Chester. In addition, all candidates must appear for a personal interview and certain music tests, which vary according to the degree program sought.

The college will provide large instruments such as the tuba, string bass, or timpani for these tests. All smaller instruments must be brought to the college. All candidates will take the Seashore Measures of Musical Talents, for which no preparation is necessary.

The following are acceptable as "major" instruments: violin, viola, cello, bass, trumpet, trombone, baritone, tuba, French horn, oboe, English horn, flute, Bb clarinet, bassoon, and percussion (provided the candidate demonstrates an acceptable competence in playing various percussion instruments). The guitar and accordion are not considered acceptable major performance areas. However, the School of Music will audition a candidate on these instruments if he believes the audition will demonstrate evidence of his background.

TRANSFER STUDENTS—consult the paragraphs headed "Transfer Students" and "College Policies for Students Transferring from a Non-Accredited Institution" under Admission to West Chester.

MUSIC TESTS—B.S. IN MUSIC EDUCATION

(1) Each candidate must demonstrate skill in at least one performing medium in which he excels: piano, organ, voice, or a band or orchestra instrument. It is preferable, although not required, for pianists and vocalists to perform at least part of their audition from memory.
(2) All candidates are tested in voice, piano, and sight singing.
(3) A piano, organ, or voice major who has band or orchestra instrument experience is urged to demonstrate his ability on his instrument.

Note: Each candidate must bring music for the vocal, piano, and instrumental compositions he intends to perform, and should come prepared with a song that will demonstrate vocal range and quality.

MUSIC TESTS—B.A. IN MUSIC

Those planning to elect the concentration in performance must demonstrate an advanced level of accomplishment in an audition. Memorization is preferred for vocalists and pianists.

MUSIC TESTS—B.MUS.

Each candidate must demonstrate an advanced level of proficiency in the major area of performance as evidenced by his ability to perform compositions representing a variety of musical periods and must show potential as a professional performer. Memorization is required for pianists and vocalists.

NOTE

It is strongly recommended that candidates for the B.A. and B.Mus. degrees take

all tests required for admission to the B.S. program. Doing so will be a great advantage in the event the candidate later chooses to enter the college in that program.

SCHOOL OF MUSIC DEGREE PROGRAMS

B.S. IN MUSIC EDUCATION

Candidates choose one of three teaching concentration programs—general, instrumental, or vocal-choral. They must satisfactorily complete 128 semester hours, distributed among the following areas:

1. General Requirements 44 s.h.
   See page 60
   The following Cognate Requirements are credited to General Requirements: MUS 221, Theatre/Speech (General and Vocal-Choral Concentrations), PSY 100, MUS 414

2. Professional Education Requirements 26-28 s.h.
   EDF 100, MUS 331, MUS 332, methods course or courses in the teaching concentration (2-4 hrs.), EDP 250, MUS 431.

3. Specialized Preparation 56-58 s.h.

   A. *Theory and Music History* (23 s.h.)
      Theory I, II, III, IV
      Aural Activities I, II, III, IV
      Music in Western Civilization II

   B. *Applied Music* (26½-35 s.h.)
      Conducting (4 s.h.)
      Major Performing Area (Individual Lessons) (8-9 s.h.)
      Minor Performing Area (Individual Lessons) (4-6 s.h.)
      Minor Performing Area (Class Lessons) (3½-11 s.h.)

   C. *Electives* (0-8½ s.h.)
      Chosen from courses listed by each department in the school.

BACHELOR OF ARTS

1. General Requirements 44 s.h.
   See page 60
   The following cognate requirements are credited to general requirements: MUS 221, MUS 414, special concentration requirements (Consult the student handbook)

2. Foreign Language Requirement 6 s.h.
   (through Intermediate II level)

3. Music Core 30 s.h.
   Theory I, II, III, IV
   Aural Activities I, II, III, IV
   Counterpoint I
   Music in Western Civilization II
   Secondary Performance Area (2 s.h.)
   Conducting (Choral or Instrumental) (2)

4. Area of Concentration Requirements 48 s.h.

   Elect Either A. or B.

   A. *Concentration in Performance*
      Major Performance Area (Individual lessons, recital) (12 s.h.)

Musical Organization (2 s.h.)
Music History elective (3 s.h.)
Special elective requirement of Concentration Area (under advisement) (9 s.h.)
Electives (22 s.h.)

B. *Concentration in Theory-Music History and Literature*
Piano (8 s.h.)
Musical Organizations (4 s.h.)
Research Techniques (3 s.h.)
Music History electives (chosen from Mus 340-345) (12 s.h.)
Counterpoint II
Form and Analysis (3 s.h.)
Orchestration (3 s.h.)
20th Century Techniques (3 s.h.)
Free electives in history or theory (9 s.h.)

BACHELOR OF MUSIC

1. General Requirements — 44 s.h.
   See page 00
   The following cognage requirements are credited to general requirements:
   MUS 221, MUS 414

2. Foreign Language Requirement — 6 s.h.
   (need not be at intermediate level)

3. Area of Concentration Requirements — 78 s.h.

   A. *Required Core* (66 s.h.)
   (1) Music History (9 s.h.)
   Music in Western Civilization II
   Aesthetics and Music Criticism
   Music History-Literature elective
   (2) Theory of Music (23 s.h.)
   Theory I, II, III, IV
   Aural Activities I, II, III, IV
   Counterpoint I
   (3) Applied Music (34 s.h.)
   Major Performance Area (including recitals) (16 s.h.)
   Secondary Performance Area (4 s.h.)
   Musical Organization (2 s.h.)
   Conducting (Choral or Instrumental) (2 s.h.)
   Master Class and/or Ensemble (4 s.h.)
   Literature (Applied Major) (6 s.h.)

   B. *Electives (under advisement)* (12 s.h.)

   Note: Voice majors are required to elect at least 9 s.h. of foreign language study. (These studies may be at any level.)

COURSE DESCRIPTIONS

DEPARTMENT OF THEORY AND COMPOSITION

Symbol: MUS

James J. Wright, Chairperson; *Gangemi, Haban, Loiselle, Munger, Nelson, Sullivan, Wilkinson, and Staff.*

112 Theory of Music I (3) Fundamentals of music theory, music writing, keyboard harmony. Elements of musical form and the rounded binary form. The diatonic triads in root position. Analysis and creative activity.

113 Theory of Music II (3) Inversions of diatonic triads and the chord of the seventh. The invention and sonata-allegro forms. Analysis and creative activity. PREREQ: MUS 112.

114 Aural Activities I (2) Development of basic hearing skills, chiefly through sight singing and dictation activities based upon the subject matter of MUS 112.

115 Aural Activities II (2) Continued development of basic hearing skills. PREREQ: MUS 114.

212 Theory of Music III (3) Modulation, applied dominant, the ninth chord, and chromatic sonorities. Ternary form, variation, and fugue. Analysis and creative activity. PREREQ: MUS 113.

213 Theory of Music IV (3) Harmonic and contrapuntal techniques of the 20th century. The rondo and concerto forms. Analysis and creative activity. PREREQ: MUS 212.

214 Aural Activities III (2) Material of advanced difficulty involving chromatic alteration, foreign modulation, and intricate rhythms. PREREQ: MUS 115.

215 Aural Activities IV (2) Continuation of MUS 21 and activities involving nontonal music. PREREQ: MUS 214.

312 Counterpoint I (3) The contrapuntal techniques of tonal music. Choral prelude and invention PREREQ: MUS 212.

313 Counterpoint II (3) Advanced contrapuntal forms including canon and fugue. PREREQ: MUS 312.

314 Musical Form (3) The standard forms of tonal music based on the treatises of Goetschius and Salzer. PREREQ: MUS 212.

315 Orchestration (3) The orchestra; use of instruments individually and in combination. PREREQ: MUS 212.

318 Techniques of Twentieth Century Composition (3) A study of the technical aspects of contemporary music. Writing "in the style of," etc. PREREQ: MUS 212.

412 Composition I (3) Creative writing in the forms, styles, and media best suited to the capabilities and needs of the student. PREREQ: MUS 212.

413 Composition II (3) Further application of MUS 412, stressing contemporary techniques. PREREQ: MUS 412.

414 Acoustics of Music (3) The study of sound: its production, transmission, and reception. Musical instruments, the acoustics of rooms, and the physical basis of scales.

415 Serialism and Atonality (3) Compositional procedures and theoretical concepts in atonal and serial works of Schoenberg, Berg, Webern, Bartok, Stravinsky, and more recent composers. PREREQ: MUS 213.

416 Jazz Practices (3) Jazz history, writing, and performance. Survey of basic jazz literature; fundamental techniques in arranging and improvising. PREREQ: MUS 213 or equivalent.

DEPARTMENT OF MUSIC HISTORY AND LITERATURE

Symbol: MUS

Liselotte M. Schmidt, Chairperson; *Johns, Murray, Pflieger, Wells, Vinquist and Staff.*

121 Fine Arts (Music) (3) Designed for the general requirements. An introductory

course in the history and appreciation of music from the Middle Ages through the contemporary period. Not open to music majors or elementary education students with a concentration in music.

Note that other courses are available to the non-music major for general requirements. Particularly suitable are MUS 122, 123, 124, 125, 126, 421. Additional courses may also be taken for the same purpose, with consent of department chairperson.

122 Music History I (3) The history and appreciation of music from the earliest times through the Baroque period. Musical forms, aesthetic concepts, and practices. Analysis and listening experience.

123 Music History II (3) The history and appreciation of music from the classical through the contemporary period. Continuation of MUS 122.

124 Music in Concerts (3) For non-music majors. Experiencing music in the concert situation. Students attend a live performance once weekly. Two supplementary lectures prepare for these live performances through guided listening, discussion of musical form and styles, and background information.

125 Perspectives in Jazz (3) For non-music majors. Guided listening to improve understanding and enjoyment of jazz with emphasis upon jazz heritages, chronological development, and sociological considerations, culminating in an analysis of the eclectic styles of the 1960's and 70's.

126 Folk and Traditional Music of the Western World (3) Introductory survey of music and musical styles of folk and traditional music in the Western world. Analysis of styles, forms, aesthetic and cultural concepts, and practices, surveyed as they relate to folk music and the mainstream of art music.

127 Special Subjects Seminar (3) Significant topics presented by faculty members and/or visiting lecturers. Designed for the non-music major who has had little or no previous musical experience. Fulfills the general requirements.

221 Music in Western Civilization I (3) A history of music from earliest known times through the Baroque Period—to 1750. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ for music majors: MUS 113. For non-music majors: consent of instructor.

222 Music in Western Civilization II (3) A history of music from the Classical through Contemporary Period. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ for music majors: MUS 113. For non-music majors: consent of instructor.

224 Keyboard Literature I (3) A survey of literature for keyboard instruments from the Baroque Period through the late Classical Period. The various styles in solo and ensemble literature are illustrated by recordings and performance by keyboard majors.

225 Keyboard Literature II (3) A continuation of MUS 224. Performance by keyboard majors and recordings. Literature from the Romantic through the Impressionist Period is studied.

226 Art Song (3) Origins and development of the art song.

322 American Music (3) Survey of the development of music and musical style from 1620 to the present. Analysis of styles, forms, aesthetic concepts, and practices. For music majors, or non-music majors with permission of instructor.

323 Aesthetics and Music Criticism (3) The nature of aesthetic experience and various problems in the philosophy of art. Principles of criticism related to music and its performance. For music majors, or non-music majors with permission of instructor.

324 String Literature I (3) A survey of literature for string instruments from the pre-Baroque through the Classical Period. Study of style, form, and analysis; performance. Students, performing on their major instruments, and pertinent recordings provide illustrative literature. For music majors, or non-music majors with permission of instructor.

325 String Literature II (3) A continuation of MUS 324, pursuing the same format and considering literature of the Romantic and Contemporary Periods. For music majors, or non-music majors with permission of instructor.

326 Woodwind Literature I (3) A survey of literature for flute, oboe, clarinet, and bassoon from the Baroque and Classical Periods. Recordings and performance by woodwind majors. For music majors, or non-music majors with permission of instructor.

327 Woodwind Literature II (3) A continuation of MUS 326. The Romantic and Contemporary Periods are studied. For music majors, or non-music majors with permission of instructor.

328 Brass Literature I (3) The nature and development of brass instruments, observed in the solo, ensemble, and orchestral literature of the 16th, 17th, and 18th centuries. For music majors, or non-music majors with permission of instructor.

329 Brass Literature II (3) A continuation of MUS 328, beginning with the introduction of pistons and valves in the 19th century and proceeding through the 20th century to the present. For music majors, or non-music majors with permission of instructor.

340 Medieval Music (3) Development of plainsong and secular monody and beginnings of early history of polyphony through the 14th century. Consideration of contemporary trends in the visual arts, history, and literature. PREREQ: MUS 221 and 222, or permission of instructor.

341 Renaissance Music (3) Sacred and secular music in the age of Dufay; changing forms and styles through the music of the Franco-Flemish groups; the frottola and related forms; Palestrina and his contemporaries, with a brief consideration of contemporary trends in the visual arts, history, and literature. PREREQ: MUS 221 and 222, or permission of instructor.

342 Baroque Music (3) Styles and forms of Baroque repertoire; contributions of the major Baroque composers; role of music and musicians in the society of the period. PREREQ: MUS 221 and 222, or permission of instructor.

343 Late 18th Century Music (3) Changing styles and forms in: the sons of J. S. Bach; the Viennese pre-classicists; the Mannheim school; opera; Joseph and Michael Haydn, Mozart, and their contemporaries; the early works of Beethoven. PREREQ: MUS 221 and 222, or permission of instructor.

344 Music of 19th-Century Romanticism (3) Historical developments during the Romantic Period (circa 1800-1900). Analysis of changes and trends; comparative aspects of new forms. PREREQ: MUS 221 and 222, or permission of instructor.

345 Contemporary Styles (3) Trends in modern music from about 1900 to the present. Analysis and listening experience. PREREQ: MUS 221 and 222, or permission of instructor.

346 Bach and His Works (3) The life of J. S. Bach; works for organ, keyboard, and other instruments; cantatas and larger choral works. Introduced with a review of contemporary trends in music, the visual arts, history, and religion as they affect his composition. PREREQ: MUS 221 and 222, or permission of instructor.

348 Problems in Performance Practice (3) Historical and analytical consideration of special problems in the accurate realization and performance of music from the Middle Ages to the present. PREREQ: MUS 221 and 222, or permission of instructor.

349 Introduction to Research in Music History (3) Basic bibliographical material,

library resources, and research techniques applicable to undergraduate study in music history and literature. Required of B.A. majors in music history and theory. Open to others with permission of instructor and department chairperson.

421 Literature of the Musical Theater (3) The literature of the musical theater from Singspiel to Broadway Musical. Changes in style are observed and analyzed.

424 Development of the Opera (3) A basic course in the origin and development of the opera and its dissemination throughout the Western World.

425 Literature of Orchestral Music (3) A study of representative orchestral works; symphonies, concerti, suites, overtures, and others, from the Baroque Period to the present. Appreciation and analysis. PREREQ: MUS 221 and 222, or permission of instructor.

426 Choral Repertoire (3) The development and performance style of the choral repertoire.

427 African and Afro-American Music (3) African music in its social context. African-influenced music of the Western hemisphere including spirituals, work songs, field hollers, ragtime, blues, jazz, gospel songs, and soul music. Some "art" music by black composers. PREREQ: an introductory course in music or permission of instructor.

428 Chamber Music Literature (3) Analysis of style and form of chamber music repertoire from the Baroque through Modern Period. Emphasis on appreciation as well as structure. PREREQ: MUS 221 and 222, or permission of instructor.

429 Special Subjects Seminar (3) Significant topics presented by faculty members and/or visiting lecturers. Designed to meet the specific needs of undergraduate music majors.

DEPARTMENT OF MUSIC EDUCATION

Symbol: MUS

Margaretta A. Carey, Chairman; *Antonowich, Belmain, Collins, Merrell, Northeimer, Singleton, Stringer, and Staff.*

030 Fundamentals of Music (no credit) For elementary education students who do not meet minimum requirements on a music fundamentals test. For these students the course is a prerequisite for MUS 231. Intervals, scales, key signatures, and other fundamentals of musical notation are stressed.

231 Music for the Classroom Teacher (3) Designed to equip the elementary classroom teacher to participate in the music program. Emphasis on teaching procedures and materials. PREREQ: passing grade on a music fundamentals test.

331 The Music Curriculum, K-6; Methods and Materials (3) The study of music and the learning process at the elementary level; the listening program, pedagogy for the elementary music program, and materials.

332 The Music Curriculum 7-12; Methods and Materials (3) The study of music and the learning process at the secondary level; the listening program, the middle and junior high school general music programs, ethnomusic, programs and performances, basics of administration, related arts, the music major program, and evaluative techniques.

333 Instrumental Methods (2) Fundamentals underlying the development of instru-

mental programs in the public schools. Emphasis upon program organization and administration, teaching procedures, and materials.

Note that MUS 331, MUS 332, and MUS 333 are scheduled concurrently, normally in the junior year, in order to permit regular and ample opportunity for observation in area public schools.

334 Teaching Music Listening at the Elementary Level (3) The teaching of the elements of music, musical concepts, and the development of aesthetic sensitivity through listening.

335 Choral Materials and Practices (2) Designed to acquaint the student with the vast amount of choral music suitable for school use. Program building and rehearsal techniques are demonstrated.

336 Piano Methods (Class) (3) For piano teachers and supervisors in the organization and teaching of piano classes. Suitable teaching materials are examined and discussed. Demonstrations and student teaching.

337 Instrumental Techniques and Materials (2) For juniors and seniors who desire to specialize in instrumental music. Considers rehearsal procedures, effective materials, minor repairs of instruments, competitions and festivals, and marching band procedures. PREREQ: MUS 333.

338 Piano Pedagogy (3) Designed as preparation for studio teaching. Emphasis is on materials and varied approaches for the early stages of instruction.

431 Student Teaching, Practicum, and Direction of Student Activities (12) Observation and participation in teaching vocal and instrumental music in situations ranging from the primary grades through senior high school. Undertaken in conjunction with qualified cooperating teachers. Professional conferences and visitations are an integral part of the experience.

DEPARTMENT OF KEYBOARD MUSIC

Richard K. Veleta, Chairperson; *Bedford, Hales, Lucas, McHugh, Pandel, Pennington, Pethes, Schick, Voois, Weiss, Whitten, Wilkinson and Staff.*

NUMBERING SYSTEM

Private and class lessons given by the Department of Keyboard Music are shown by the following numbers, together with the appropriate prefix:

PIA—Piano ORG—Organ

Course Number		Semester Hours
001-002	**Class instruction in minor performance area**	**1/2**
101-402	**Private instruction in minor performance area**	**1**
105-106	**Private instruction in minor performance area, Elementary Education students with a concentration in music**	**1**
107-109	**Private instruction in major performance area, Elementary Education students with a concentration in music**	**1**
111-412	**Private instruction in major performance area, Music Education program**	**1**
413	**Elective credit for senior recital, accompanying, or other participation in concerts or recitals, or extra study of literature. Available to Music Education seniors only during the non-student-teaching semester by permission of the department.**	**1**

121-422 Private instruction for Music Education students with Advanced Standing 1

131-432 Private instruction in major performance area, B.A. program 1 or 2

141-442 Private instruction in major performance area, B.Mus. Program 2

MAK 311-314 Master Class (Keyboard) (1) For keyboard majors. Experience in performing memorized literature. Class members also play two-piano compositions and ensemble music for piano and other instruments. Keyboard trios, quartets, and quintets are analyzed and performed.

PIA 310 Accompanying (2) A laboratory course in the principles of playing accompaniments to art songs, concertos, and Baroque recitatives; and in ways to realize continuos and make orchestral reductions at the piano.

PIA 400 Piano Class (Elementary Teachers) (3) Piano accompaniments for classroom music activities; teaching of practical classroom materials.

DEPARTMENT OF VOCAL AND CHORAL MUSIC

Roy D. Sweet, Chairman; *Alt, Conaway, Dorminy, Frenz, Friday, Markow, Sheppard, Vandever, Wagner, Williams, and Staff.*

NUMBERING SYSTEM

Private and class lessons given by the Department of Vocal and Choral Music and shown by the following numbers, together with this prefix:

VOI—Voice

Course Number — Semester Hours

001-002 Class instruction in minor performance area 1/2

101-402 Private instruction in minor performance area 1

105-106 Private instruction in minor performance area, Elementary Education students with a concentration in music 1

107-109 Private instruction in major performance area, Elementary Education students with a concentration in music 1

111-412 Private instruction in major performance area, Music Education program 1

413 Elective credit for senior recital, accompanying, or other extra participation in concerts or recitals, or extra study of literature. Available to Music Education seniors only during the non-student-teaching semester by permission of the department. 1

121-422 Private instruction for Music Education students with Advanced Standing 1

131-432 Private instruction in major performance area, B.A. program 1 or 2

141-442 Private instruction in major performance area, B.Mus. program 2

DIC 111 English-Italian Diction (3) English, Italian, and Latin diction for singers. Use of phonetics with application to singing of selected songs.

DIC 112 French-German Diction (3) French and German diction for singers. Use of phonetics with application to singing of selected songs.

MXC 111 Mixed Chorus (1/2-1) Designed to acquaint the student with choral literature for Mixed Chorus, Women's Chorus, and Men's Chorus. Program performance included.

CHC 111 Chamber Choir (1/2) Performance of music of the Renaissance and Baroque Periods. The performing choir is selected by audition.

MCL 111-112 Madrigal Class (1/2) Performance techniques in the music of the Renaissance. Requirement for students in the Vocal-Choral concentration of the B.S. in Music Education program; may be met by Chamber Choir.

OPC 111 Opera Chorus (1/2) An elective course devoted to the training of a choral group which participates in opera or operetta productions. May not be used to satisfy choral credits. Membership by audition.

CHO 111/311 Choir (1/2 - 1) Designed to give the student a wide association with the choral literature for mixed chorus. Music of high-school level as well as more difficult literature.

CCH 111/311 Concert Choir (1/2-1) Devoted to acquiring a fine technique in choral singing through the preparation of programs for performance. Membership by audition.

WGC 111 Women's Glee Club (1/2) An opportunity for non-music students to learn the choral literature for women's chorus. Membership by audition.

CCO 211 Choral Conducting I (2) A practical application of conducting and vocal techniques in choral direction through practice in conducting a choral group.

CCO 212 Choral Conducting II (2) Continued development of conducting techniques with stress on conducting of polyphonic choral music and on the musical styles of the various choral periods. PREREQ: CCO 211.

MAV 311 Master Class (Voice) Baroque Period (1)

MAV 312 Master Class (Voice) German Lied (1)

MAV 313 Master Class (Voice) French Melodic (1)

MAV 314 Master Class (Voice) 20th Century Art Song (1)

OPW 421 Opera Workshop I (2) A study of the arts and crafts required in a musical production; coaching, set designing and construction, stage movement, and costuming.

OPW 422 Opera Workshop II (2) Major roles in short productions and minor roles in extended productions. By audition.

OPW 423 Opera Workshop III (2) Continuation of OPW 422. By audition.

OPW 424 Musico-Dramatic Production I (3) Major roles and/or major responsibilities in extended productions. By audition.

OPW 425 Musico-Dramatic Production II (3) Continuation of OPW 424. By audition.

DEPARTMENT OF INSTRUMENTAL MUSIC

Edward A. Barrow, Chairperson; *Boerlin, Brueninger, Cohen, Goebel, Guidetti, Hegvik, Klein, Laudermilch, Moss, Roper, Smith, Southall, Swartley, and Staff.*

NUMBERING SYSTEM

Private and class lessons given by the Department of Instrumental Music are shown by the following numbers, together with the appropriate prefix:

VLN — Violin	ENH — English Horn	TRB — Trombone
VLA — Viola	CLT — Clarinet	BAR — Baritone

VCL — Cello
BAS — Bass
FLU — Flute
OBO — Oboe
BSN — Bassoon
HRP — Harp
FRH — French Horn
TPT — Trumpet
TBA — Tuba
PER — Percussion

Course Number		Semester Hours
001-002	**Class instruction in minor performance area (Except VLN 001-002: 1 credit each)**	**1/2**
101-402	**Private instruction in minor performance area**	**1**
105-106	**Private instruction in minor performance area, Elementary Education students with a concentration in music**	**1**
107-109	**Private instruction in major performance area, Elementary Education students with a concentration in music**	**1**
111-412	**Private instruction in major performance area, Music Education program**	**1**
413	**Elective credit for senior recital, accompanying, or other extra participation in concerts or recitals, or extra study of literature. Available to Music Education seniors only during the non-student-teaching semester by permission of the department.**	**1**
121-422	**Private Instruction for Music Education students with advanced standing**	**1**
131-432	**Private instruction in major performance area, B.A. program**	**1 or 2**
141-442	**Private instruction in major performance area, B.Mus. Program**	**2**

BRC 001 Brass Class (1/2) Class instruction in French horn, trombone, and tuba for non-brass majors only.

BRC 002 Brass Class (1/2) Class instruction in brass instruments for brass majors.

WWC 001 Woodwind Class (1/2) Class instruction in flute, oboe, and bassoon for non-woodwind majors only.

WWC 002 Woodwind Class (1/2) Class instruction in woodwind instruments for woodwind majors.

SEN 111 String Ensemble (1/2) Principles of ensemble playing through the performance of various types of chamber music.

WEN 111 Woodwind Ensemble (1/2) Principles of ensemble playing through the performance of various types of chamber music.

BEN 111 Brass Ensemble (1/2) Principles of ensemble playing through the performance of various types of chamber music.

PEN 111 Percussion Ensemble (1/2) Principles of ensemble playing through the performance of compositions limited to instruments of the percussion family.

ELO 111 Elementary Orchestra (1/2) Music for the beginning orchestra through performance. Emphasis on beginners' problems, organization, and techniques of string performance.

SYO 111/311 Symphony Orchestra (1/2-1) Emphasis on performance of a wide variety of orchestral literature for concerts, accompanying student soloists, opera, and oratorio.

OST 111 Orchestral String Techniques (1/2) Additional exposure to string orchestra literature and study of idiomatic string problems within regular orchestra parts.

ELB 111 Elementary Band (1/2) Music for the beginning band through perfor-

mance. Emphasis on beginners' problems, organization, and techniques of wind and percussion playing.

CBA 111/311 Concert Band (1/2, 1) Performance of the band literature suitable for junior high and senior high levels.

MBA 111/311 Marching Band (1/2, 1) Program building, balance, and rehearsal techniques are stressed. Members participate in marching band activities.

SBA 111/311 Symphonic Band (1/2-1) The Symphonic Band emphasizes performance of a variety of band literature: standard repertoire, recently published compositions, and selections from festival lists. The Marching Band performs precision and theme drills at football games and plays for community and college functions.

WIN 111/311 Wind Ensemble (1/2-1) A band of 50 or 60 members composed of outstanding campus wind instrumentalists and percussionists. The ensemble performs difficult music selected mainly from contemporary works.

ICO 311 Instrumental Conducting I (2) Development of conducting skills and techniques, score reading, and terminology. Works from the late 18th century are studied and conducted.

ICO 312 Instrumental Conducting II (2) Continued development of conducting skills and score reading of more advanced music literature. Works from the Romantic and Contemporary Periods are studied and conducted. PREREQ: CCO 211 or ICO 311.

MAS 311-314 Master Class (Strings) (1) Standard repertoire for combinations of string instruments, including trios, quartets, quintets, and other groups involving piano, organ, and other instruments.

MAW 311-314 Master Class (Woodwinds) (1) Repertoire from the Baroque Period to the present performed by ensembles of woodwind instruments. Solos are performed and discussed.

MAB 311-314 Master Class (Brasses) (1) Repertoire for brass solo, homogeneous ensemble, and mixed ensemble is performed and discussed.

MAP 311-314 Master Class (Percussion) (1) Repertoire for solo and ensemble music for percussion is performed and discussed.

Nursing

Carol Matz,
Chairperson

ASSOCIATE PROFESSOR: Schoel
ASSISTANT PROFESSORS: Coombs, Devlin, Guerin, Kline, Matz, Swope
INSTRUCTORS: Harrison, Koenig, Murphy, Slaninka, Woodward

BACHELOR OF SCIENCE IN NURSING

The Bachelor of Science degree program in nursing is offered by the Department of Nursing, which is an integral part of the School of Sciences

and Mathematics. The family-centered program is based upon the concept that man in totality is a bio-psychosocial being with basic health needs. The Department of Nursing believes that quality health care is a basic right of all people and that man's health care needs can more adequately be met through the preparation of the professional nurse who completes courses in the social and natural sciences, humanities, and the nursing major.

Characteristics of the graduate include: 1) an awareness and sense of responsibility for contemporary social issues; 2) concern for improvement of health care within society through professional citizen activities; 3) competency in utilizing the nursing process to assist clients at various adaptational levels and development stages in a variety of settings; 4) collaboration, coordination and consultation as a colleague within the interdisciplinary health team; 5) belief in learning as a life-long process; 6) utilization of the scientific method to make decisions based upon predictable and unpredictable results in providing health care; 7) participation in the change process by collection of data applying to nursing theories and practice.

SPECIAL REQUIREMENTS

Nursing candidates are admitted once a year, in September.

Nursing students are required to supply fheir own transportation to clinical facilities.

HEALTH REQUIREMENTS

Nursing candidates must meet the general health requirements of all students at West Chester State College for the freshmen and sophomore years. Candidates must meet the following health requirements the summer previous to the junior and senior years: Inoculations against smallpox, diphtheria, typhoid, tetanus and poliomyelitis (a series of four); a complete physical examination which must include a complete blood count, blood serology, chest x-ray, urinalysis, dental and eye examinations, and any other diagnostic tests deemed necessary.

Insurance Requirements. Students are required to carry liability insurance the junior and senior year at a yearly cost of approximately $15.

Uniforms. Students must purchase uniforms costing approximately $100 at the end of their sophomore year.

Beyond the 44 hours of general requirements, the B.S. in nursing

Core Requirements*

PSY 100, PSY 210, SOC 100, BIO 100, CHE 103-104, CHL 103-104, BIO 101-102, BIO 104, CHE 230, PSY 375, BIO 307, CHE 404, SOC 333, PSY 245, or MAT 121.

* Some of these courses may be used to satisfy general requirements.

Nursing Concentration Requirements

NSG 212, NSG 311-312, NSG 411-412.

COURSE DESCRIPTIONS

Symbol: NSG

212 Nursing Theories and Concepts (3) Nursing theories and concepts, conceptual frameworks, theories from other disciplines which may apply to nursing and the nursing process are studied.

311-312 Adaptation I-II (10) (10) Health is stressed as it relates to man's adaptation through normal physical, psychosocial responses and the nursing process. NSG 312 concentrates the use of the nursing process to aid clients whose adaptive responses create an awareness of slight health imbalance. 311 must precede 312. PREREQ: NSG 212.

411-412 Advanced Adaptation I-II (10) (11) The use of the nursing process with clients who are unable to reduce, control or limit their generalized responses by direct adaptation is studied. NSG 412 includes the use of the nursing process with clients and groups having adaptive responses which apply to promotion and restoration of health. 411 must precede 212. PREREQ: NSG 312.

415 Adaptation Middle and Old Age (3) Middle and advanced aged persons are studied in relation to theories about aging, physical, psycho-social promotion, maladaptation and restoration.

482 Nurse's Role in Care of Developmentally Disabled (2) The nursing process is studied in the physical, psycho-social care and rehabilitation of handicapped, retarded, cerebral-palsied, epileptic and others.

Philosophy

George S. Claghorn,
Chairperson

PROFESSORS: Claghorn, Hipple, Platt, Riukas, Struckmeyer
ASSOCIATE PROFESSORS: Banyacski, Croddy, Streveler, Williams

BACHELOR OF ARTS—PHILOSOPHY

The aims of philosophy are to familiarize the student with our intellectual heritage, to promote clear thinking, and to encourage an understanding of other people. As philosophy analyzes and relates many disciplines, it is general education in the broadast sense. The philosophy major is standard preparation for opportunities in business and industry, particularly in connection with computers. It leads also to government posts dealing with personnel, problem-solving, and work with other cultures. Philosophy is recommended for pre-law and pre-seminary students. This program opens the way to graduate work and to careers in college teaching.

BACHELOR OF ARTS—PHILOSOPHY

Concentration: Philosophy

1. General Requirements, see page 00. One course in political science and one in history are to be taken either under general requirements or as cognate requirements.

2. Foreign Language Requirements: courses through the second year of a foreign language, or equivalent proficiency.
3. Arts and Letters Core, see page 00
4. Philosophy Concentration Requirements: 24 hours, including PHI 290, 380, 470, 472, and 499. PHI 374 is recommended.
5. Free Electives: 57 hours.

Concentration: Religious Studies

1. General Requirements, see page 00. PHI 102 and one course in political science and one in history are to be taken either under general requirements or as cognate requirements.
2. Foreign Language Requirements: courses through the second year of a foreign language, or equivalent proficiency.
3. Arts and Letters Core, see page 00
4. Religious Studies Concentration Requirements: 24 hours, namely, PHI 349, 461, 463, 465, 466, 471, 486, and SOC 345.
5. Free Electives: 54 hours.

COURSE OFFERINGS IN PHILOSOPHY

Symbol: PHI

Note: Only PHI 399 and 499 have pre-requisites. All other philosophy courses are non-sequential and open to all students. Not all courses will be offered every year.

101 Introduction to Philosophy (3) The chief problems and methods of philosophic thought, with a survey of some typical solutions. The place and influence of philosophy in the life of man today. Offered every semester.

102 Introduction to Religious Studies (3) The role of religion in human life. Illustration drawn from various traditions, rituals, and belief patterns, both ancient and modern.

150 Critical Thinking and Problem Solving (3) Introduction to the principles of valid inference and effective thinking. Problem solving; puzzles; games; decision-making; the syllogism; probability; logical fallacies; creative thinking.

201 Contemporary Issues (3) Discussion and analysis of contemporary philosophical issues of particular concern to students, such as death, personal identity, environmental ethics, and human labor. The topic varies from semester to semester.

290 Logic (3) The art of critical thought and of sound reasoning. Formal and classical logic; propaganda; introduction to the scientific method. Offered every semester.

330 (also LIN 330) Introduction to Meaning (3) Relationship between linguistics and philosophy, with emphasis on meaning in language. Some issues in the theory of meaning from both linguistics and philosophy; materials from each field to help solve these issues.

349 Ideas of the Bible (3) An introduction to Biblical concepts of revelation, God, Nature, man, and redemption, in the light of Hebrew and Greek thought.

360 (also LIN 360) Philosophy of Language (3) Questions of meaning in communication. Emphasis on contemporary discussions of theories of natural language.

374 Aesthetics (3) Interpretation of beauty and art. Effects of motivation; problems in media and in goals. A background of meaning for the evaluation of specific works of painting, sculpture, music and architecture.

375 Existentialism (3) The rise and development of Existentialism. Chief exponents; views of man; influence on ethics, literature, and social action.

380 Ethics (3) Great ethical systems of history and their application to personal and social life. The right and the good, the nature of values, and critical ethical dilemmas.

399 Seminar in Philosophy (3) An in-depth study of a man or topic in philosophy. Open to all. PREREQ: 6 hours of philosophy or permission of instructor.

410 Independent Studies III (1-3)

461 Indian Thought (3) The religious and philosophical heritage of India, from Vedic times to the present. Examination of major classics, such as Rig Veda, Upanishads, Bhagavad-Gita, and Yoga-sutras, with some attention also to recent writers such as Tagore, Gandhi, and Radhakrishnan.

462 Chinese and Japanese Thought (3) A survey of Far Eastern philosophy, religion, and scientific thought. Confucianism, Taoism, and the various schools of Mahayana Buddhism, including Zen, are given primary emphasis.

463 History of Hebrew Thought (3) Hebrew concepts of God, man, and the universe, Biblical origins; Philo; the Rabbinic writings; medieval traditions and interpretations; Maimonides, Spinoza, Mendelssohn, and Buber; contemporary problems.

465 History of Christian Thought (3) Christian views of God, man, society, culture, and their interrelations. Classic controversies, such as faith and reason, culture and faith, determination and freedom.

466 Comparative Religion (3) A study of selections from the primar sources of the world's living religions. Concepts of God, man, society, and Nature. The relation of thes writings to each other; their impact on contemporary world culture.

470 History of Ancient Philosophy (3) A survey of the major figures of ancient philosophy, from the pre-Socratics through Plato, Aristotle, the Epicureans, and Stoics, to the Skeptics and Neo-Platonists. Offered in fall.

471 History of Medieval Philosophy (3) The history of philosophy from the early Church fathers to the late Middle Ages. St. Augustine, St. Thomas, mysticism, Jewish and Mohammedan influences, humanism, and the rise of science.

472 History of Modern Philosophy (3) From Descartes to Hegel. The social, political, and scientific impact of the philosophers. Offered in spring.

473 Contemporary Philosophy (3) Philosophic trends since 1850, including the process philosophy, Pragmatism, Positivism, Existentialism, and the Analytic School.

475 19th Century Philosophy (3) Hegel and German Idealism; decisive influences on European and American literature and thought. Survey of the chief themes of Schopenhauer, Comte, Mill, Spencer, Marx, Kierkegaard, Darwin, and Nietzsche.

482 Social Philosophy (3) The relation between man and the state, especially as seen by recent thinkers. Justice, natural rights, political obligation, freedom, and equality.

483 Philosophy of History (3) Classic philosophies of history, including those of Augustine, Vico, Hegel, Marx, Spengler, Toynbee and Collingwood. Definitions of civilization, norms of progress and decadence, determinism and indeterminism, causality, and pattern.

484 American Philosophy (3) Leaders in science, literature, religion, and government who have shaped American thought. Philosophers of Puritanism, the Revolution, Transcendentalism, and native schools of Realism, Idealism, and Pragmatism.

486 Philosophy of Religion (3) Religion and the religious experience as viewed by major Western thinkers. The existence of God, immortality, religious knowledge, evil, miracles, and science and religion.

487 Philosophy of Science (3) The nature of scientific method and scientifictheory, with reference to presuppositions, inference, explanation, prediction, applications, and verification.

488 Theory of Knowledge (3) Theories of truth, perception, and understanding. Classic and contemporary discussions on the nature of the self, in relation to the known world.

499 Senior Seminar in Philosophy (3) An intensive study of some major theme of philosophy. Required of philosophy majors. PREREQ: 6 hours of philosophy and Senior Standing, or permission of instructor. Offered in spring.

Physics

Harold L. Skelton,
Chairperson

PROFESSORS: Rickert, Shoaf, Smith, Yarosewick
ASSOCIATE PROFESSORS: Hawkes, Kaplan, Skelton

The Department of Physics at West Chester State College offers two degree programs. One leads to the Bachelor of Arts in physics and the other, to the Bachelor of Science in Education.

The concentration in physics begins with a look at the broad discipline. This is followed by a sequence including an introduction to modern physics, classical mechanics, and electricity and magnetism. Advanced courses permit students to develop a thorough understanding of the field. The calculus is a necessary mathematical tool for the study of physics at all levels.

BACHELOR OF ARTS—PHYSICS

The B.A. program in physics enables the student to receive the basic preparation required for a variety of careers. Among these are college and university teaching and research and related service in industry and government. Capable graduates of this program are normally eligible for fellowships and assistantships when they enter graduate school.

1. Physics Concentration Requirements 72 s.h.
   A. PHYSICS: PHY 101-102, 212, 233, 251-252, 414, 421, 423, 440, 451; an additional 12 s.h. in physics must be chosen from available electives
   B. MATHEMATICS: MAT 141-142, 241-242, 343, CSC 101
   C. CHEMISTRY: CHE 103-104, CHL 103-104
2. Electives 6 s.h.

Candidates for the B.A. degree in physics must meet the foreign language requirements which applies to all candidates for the B.A. degree. See page 61. The general requirements of the College, given on page 60, must also be met.

In physics the acceptable languages are French, German, or Russian.

B.S. IN EDUCATION—PHYSICS

The B.S. program in physics education prepares the student for a career in teaching physics at the high school level and leads to certification to teach physics in the public schools of Pennsylvania. The program provides a solid background in physics and the related areas of science and mathematics, so that a graduate of the program may pursue advanced study in either physics or science education.

1. Professional Education Requirements 29 s.h.
   See page 194
2. Physics Concentration Requirements 56 s.h.
   A. PHYSICS: PHY 101-102, 212, 233, 251-252, 421, 423, 451
   B. MATHEMATICS: MAT 141-142, 241; MAT 343 or PHY 415
   C. SCIENCE: CHE 103-104; CHL 103-104; Astronomy elective; biology elective

See page 60 for the general requirements of the college.

COURSE DESCRIPTIONS

Symbol: PHY unless otherwise shown (2-2) represents 2 hours lecture and 2 hours lab.

101 Physics I (4) An introductory course. Mechanics of solids and fluids, heat, temperature, thermodynamics, the kinetic theory, and wave motion. (2-2, 2 hours recitation) CONCURRENT: MAT 141.

102 Physics II (4) An extension of PHY 101. Electricity and magnetism, geometrical and physical optics, and modern physics. (2-2, 2 hours recitation) PREREQ: PHY 101. Concurrent MAT 142.

103 General Physics I (4) An introductory non-calculus physics course. Mechanics of solids and fluids, wave motion, heat and temperature, thermodynamics, and kinetic theory. (3-2) PREREQ: algebra and trigonometry.

104 General Physics II (4) An extension of PHY 103. Electricity and magnetism, geometrical and physical optics, and modern physics. (3-2) PREREQ: PHY 103.

110 Acoustics for Speech and Hearing (3) Interference and transmission of sound waves. Measurements of sound, standard scales, acoustic pressure, intensity, use of oscilloscope.

111 Physics and Anti-Physics (3) Matter and anti-matter, symmetry, relativity, wave-particle duality, blackholes, and other controversian and thought-provoking ideas of 20th century physics. PREREQ: high school physics or equivalent.

212 Mechanics (3) Kinematics and dynamics of particles and rigid bodies, work and energy, harmonic oscillations. PREREQ: PHY 102, MAT 142.

233 Introduction to Modern Physics (3) Special relativity, quantum effects, atomic structure and spectra, nuclear structure and reactions. PREREQ: PHY 102 or 104, MAT 142 or 132.

251 Intermediate Physics Laboratory I (1) A course to familiarize students with laboratory equipment and methods.

252 Intermediate Physics Laboratory II (1) A continuation of PHY 251.

413 Analytical Dynamics (3) Wave propagation, Lagrange's equations and Hamilton's principle, rigid body motion, and special relativity. PREREQ: PHY 212, MAT 343.

414 Heat and Thermodynamics (3) Equations of state, first and second laws of thermodynamics, ideal and real gases, entropy, and statistical mechanics. PREREQ: PHY 102 or 104.

415 Mathematical Physics I (3) Selected topics in mathematics applied to problems in physics, ordinary differential equations, complex variables, hyperbolic functions, vector calculus, and numerical analysis. PREREQ: MAT 241 and PHY 102 or 104.

421 Electricity and Magnetism I (3) Electrostatics of point charges and extended charge distributions, fields in dielectrics, magnetic fields due to steady currents. Ampere's Law, and induced emfs. PREREQ: PHY 102 or 104.

422 Optics (3) Geometrical and physical optics. Reflection and refraction at surfaces, lenses, interference and diffraction, polarization. PREREQ: PHY 102 or 104.

423 Electronics (4) Laboratory study of standard electronic circuits—amplifiers, oscillators, power supplies, test circuits. Some theory of solid state. (1-6) PREREQ: PHY 102 or 104.

432 Introduction to Nuclear Physics (4) Basic nuclear properties, nuclear structure and reactions. (3-3) PREREQ: PHY 233.

440 Introduction to Research (1 to 3) Specific problems in consultation with the faculty adviser. PREREQ: consent of instructor.

444 Seminar in Physics (1) Oral and written reports on approved topics. Variation in topics from year to year depending on the interest and needs of students.

451 Advanced Physics Laboratory I (1) A course to familiarize students with contemporary laboratory equipment and methods.

452 Advanced Physics Laboratory II (1) A continuation of PHY 451.

SCIENCE

Symbol: SCI

100 Elements of Physical Science (3) A study of motion, energy, light, and some aspects of modern physics stressing a conceptual and historical understanding, and the development of scientific process skills.

151 Problems of Our Physical Environment (3) Energy shortage, methods of energy conversion, possibilities and limitations, transportation—alternatives to the automobile, pollution.

POLITICAL SCIENCE—See Government and Politics

Psychology

Jay L. Clark,
Chairperson

PROFESSORS: Bartholomew, Clark, Feldman, Morse, Porter, J., Sands
ASSOCIATE PROFESSORS: Cohen, Jackman, Porter, L., Pottieger, Shinehouse
ASSISTANT PROFESSORS: Owen, Pollak, Rathus

The psychologist endeavors to apply scientific processes in order to explain, predict, and in some cases control human behavior. A bachelor's degree in psychology should prepare the student to understand those variables, such as heredity, learning, and the environment, which shape and change behavior. Careers are possible in clinics, guidance centers, industry, hospitals, schools, and government.

BACHELOR OF ARTS—PSYCHOLOGY

1.	General Requirements See page 60	44 s.h.
2.	Foreign Language Requirement	6 s.h.
3.	Social Science Core Requirements See page 61	21 s.h.
4.	Psychology Concentration Requirements a. Required Psychology Courses (18 s.h.) PSY 245, 246, 254, 357, 364, 375 b. Psychology Electives (12 s.h.)	30 s.h.
5.	Cognate Requirements	15 s.h.
6.	Free Electives	12 s.h.
5.	Cognate Requirements	15 s.h.
6.	Free Electives	12 s.h.

COURSE DESCRIPTIONS

Symbol: PSY

100 Introduction to Psychology (3) Introduction to the scientific study of behavior. The multiple bases of human behavior with emphasis on the learning process. Basic concepts, principles, and methodology.

210 Developmental Psychology I (3) A survey of research findings and theoretical issues related to developmental processes from the prenatal phase to senescence.

245 Research Methods and Statistics I (3) Experiments on selected problems, with emphasis on techniques in the design and execution of experiments and on the application of elementary statistical techniques to the collection, analysis, and interpretation of data.

246 Research Methods and Statistics II (3) Continuation of PSY 245 with emphasis on more advanced experimental designs and statistical techniques. PREREQ: PSY 245.

254 Social Psychology (3) The individual studied in his social setting; how his perceptions and attitudes affect social interaction. Group roles, norms, and their influence on social behavior. Comparison and evaluation of research in social psychology. PREREQ: PSY 100.

350 Motivation (3) A study of drives, motives, and emotions as determinants of behavior. Physiological and social aspects of motivation will be explored with some attention given to pathological factors. Emphasis on relevance to human behavior.

357 Theories of Personality (3) Major theories of personality with emphasis on psychoanalytic theorists: Freud, Erikson, Jung, Adler, Sullivan, Allport, Maslow, Skinner, Rogers, the Existentialists, others PREREQ: PSY 100.

361 Applied Psychology (3) Basic psychological principles as applied to industry, engineering, and other professions. PREREQ: PSY 100.

362 History and Systems of Psychology (3) An integrated overview of the history of psychology as well as the systems, theories and fundamental issues with which psychologists have concerned themselves in the past, recent, and the current stage of the science.

363 Psychology of Learning (3) Existing theories of learning and the relevant research data. PREREQ: PSY 100.

364 Physiological Psychology (3) Neurological, endocrinologic, and other physiological processes underlying human behavior. Effects of drugs on behavior. Techniques for study of brain-behavior relationships. Problems in the physiology of motivation, emotion, learning, memory, and attention processes. PREREQ: PSY 100.

365 Industrial Psychology (3) A basic course for business majors. Emphasis on theoretical developments in psychology as these relate to study of people in organizations and industry.

370 Mental Hygiene (3) Application of principles of psychology to problems of individual adjustment. Processes of coping used by normal persons in everyday life. PREREQ: PSY 100.

375 Abnormal Psychology (3) The nature and manifestations of normality and abnormality, mental mechanisms and symptoms, psychoneuroses, psychosbs, the psychopathic personality, and mental deficiency. Typical cases; functions of professional and lay people in dealing with abnormality. PREREQ: 6 hours in psychology and junior or senior standing.

382 Developmental Psychology II—Infancy and Childhood (3) An advanced study of the normal child from conception to puberty. Emphasis on current theoretical issues involved in the effects of early experience and environment.

383 Developmental Psychology III—Adolescence (3) An advanced study of the psychological development of the young person from puberty to adulthood, emphasizing the developmental problems of reaching maturity.

384 Developmental Psychology IV—Adulthood and Aging (3) An advanced study of psychological development during the mature years and senescence.

390 Principles of Counseling and Psychotherapy (3) Basic concepts and methods in counseling. Problems in these fields as presented in the literature, anecdotal

records, and case histories. Individual and group approaches. Juniors and Seniors only.

400 Senior Seminar in Psychology (3) Research in psychology. Methodology, bibliography, and presentation, both written and oral. The required research paper must be acceptable as a departmental Senior Research Paper. Required of all psychology majors.

410 Independent Studies in Psychology (1 to 3) Special research projects, reports, readings in psychology. Open to seniors only. PREREQ: permission of department chairman.

415 Verbal Behavior (3) Methods, materials and theoretical issues in the study of verbal behavior and verbal learning. Serial, paired-associate, and free-recall learning; effects of language habits and "higher-order" processes—such as coding behavior—on memory, transfer, and the acquisition of verbal habits. PREREQ: PSY 100.

420 Statistics for the Behavioral Sciences (3) An advanced course covering statistical topics of special interest to the behavioral scientist, such as nonparametric tests, chi square, analysis of variance.

425 Psychological Testing and Measurement (3) Principles of psychological measurement including standardization, scale transformation, reliability, validity, and item-analysis. Use of tests for the solution of problems in industrial, business, and educational settings. PREREQ: PSY 100.

427 Behavior Modification (3) Application of modern psychological theory to the problems of abnormal behavior and adjustment, and an introduction to techniques employed in altering behavior. (2 hrs. lecture, 2 hrs. lab.) PREREQ: PSY 100.

430 Human Sexual Behavior (3) Variables under which human sexual behavior functions. Research from sociological and medical studies is integrated with psychological knowledge. PREREQ: 6 hours in psychology and junior or senior standing.

435 Comparative Psychology (3) Study of typical behavioral mechanisms at various levels of phylogeny. Major theories; fundamental problems of research and interpretation; comparison of behavior systems between species. Laboratory projects with various species. PREREQ: PSY 100.

441 Field Experience in Psychology I (3) A work-study program in an educational or mental health facility under joint supervision of the instructor and the staff psychologists of the field institution.

442 Field Experience in Psychology II (3) Continuation of PSY 441.

443 Psychology of Group Processes (3) Origins of major orientations including: psychodynamic, psychoanalytic, existentialist, behavioral therapy, neo-religious. Current types of group formations (T-groups, transactional analysis, encounter, communes, others). Techniques for group experiences with both exceptional and normal persons. Laboratory, lecture, and field presentations.

444 Community Psychology (3) The current development of a new specialization in psychology—community consultation and community practice.

470 Sensory and Perceptual Processes (3) Theory, data, and methodology of sensory and perceptual processes.

475 Cognitive Psychology (3) Study of higher order mental processes with emphasis on the relationships of these functions to personality, motivation, emotions, and environmental influences.

490 Topical Seminar in Psychology (1-3) Special topics in Psychology not covered under existing regularly offered courses.

Reading

Jane K. Gelfand,
Chairperson

PROFESSORS: Gelfand, Hall
ASSOCIATE PROFESSORS: Christensen, Keetz
ASSISTANT PROFESSOR: Szabo

The major focus of West Chester's program in reading is at the graduate level. See the Graduate Bulletin for details. The following undergraduate courses are also available through the Department of Reading:

COURSE DESCRIPTIONS

Symbol: EDR

100 Reading and Study Skills (3) An individualized course to develop reading and study skills such as comprehension, vocabulary, speed, remembering, concentration, taking notes, mastering a text assignment, preparing for and taking examinations. Offered fall and spring semesters.

320 Reading in the Secondary School (3) Understanding the reading process and the need for reading instruction at the secondary school level; specific skill development; reading in the content areas; readability; evaluation. Offered fall and spring semesters.

321 Diagnosis and Remediation of Reading Problems (3) Identifying the nature and causes of reading disabilities; experience in helping a child with reading problems. Offered fall and spring semesters. PREREQ: EDE 311 or permission of instructor.

Secondary Education and Professional Studies

Kegham A. Mississyan,
Chairperson

Mary E. Cleary,
Assistant Chairperson

PROFESSORS: Bannon, Buechele, Cleary, Deischer, Good (Charles), Means, Mississyan, Thomas, Walters, Williams
ASSOCIATE PROFESSORS: Gleockler, Holingjak, Leeds, Paganelli, Siegel
ASSISTANT PROFESSORS: Dunn, Edwards, Swing, Treadwell
INSTRUCTORS: Hsu, Yocum

The degree of Bachelor of Science in Education, preparing the student for teaching in the secondary schools, may be earned with academic specialization in biology, chemistry, communications, earth and space science, English, French, general science, German, Latin, mathematics, physics, Russian, Spanish, or social studies (which includes concentrations in Geography, Government and Politics, and History). Satisfactory completion of a secondary curriculum will also qualify the student for a Pennsylvania Instructional I Certificate, which is valid for teaching the specified subject in approved secondary schools in Pennsylvania for three years. The student must choose one academic field of specialization.

B.S. IN EDUCATION

1. General Requirements—Secondary Education Programs, see page 60 44 s.h.

2. Professional Education Requirements—Secondary Education 29 s.h.

Professional Education Courses		
EDF 100	School and Society	3 s.h.
EDP 250	Psychology of Learning and Development	3
EDM 300	Introduction to Instructional Communications	3
EDS 306	Field Experience in Secondary Education	3
EDP 351	Evaluation and Measurement	2
EDS 412	Student Teaching for Secondary Education, Including Practicum	12
	Methods of Teaching Academic Subject	3
		29 s.h.

3. Specialization For Secondary Teaching—See appropriate page for each field of specialization

Specialization in one of the teaching fields listed below is required for graduation in secondary education. The minimum semester hours which West Chester requires for each field will satisfy the teacher certification requirements in Pennsylvania. The minimum for each field of specialization may be noted in the particular B.S. in Education program given under the heading of the department. (See School of Arts and Letters, School of Sciences and Mathematics, or School of Social and Behavioral Sciences.)

Secondary Teaching Fields

Biology	French	Physics
Chemistry	General Science	Russian
Communications	German	Social Studies
Earth and Space Science	Latin	Spanish
English	Mathematics	

The student following the secondary education program must confer regularly with his professional studies advisor in the Department of Secondary Education and Professional Studies, as well as with the academic advisor assigned by his respective academic department. The final certification of all students whose goal is the Bachelor of Science in Education is the responsibility of the dean of the School of Education.

COURSE DESCRIPTIONS

FOUNDATIONS

EDF 100 School and Society (3) An introduction to the nature, function, scope, organization, administration, and support of the public school in American society. Offered every semester.

EDF 350 The Professional and Student Personnel Services (3) An introduction to non-adjunctive services in education. PREREQ: EDP 250. Not to be offered in 1977-78.

EDUCATIONAL PSYCHOLOGY

EDP 250 Psychology of Learning and Development (3) A study of learning in relation to the physical, social, emotional, and intellectual aspects of personality. PREREQ: PSY 100. Offered every semester.

EDP 351 Evaluation and Measurement (2) A survey of testing materials and procedures with emphasis upon interpretation and application of results for pupil guidance purposes. Class meets three times weekly. PREREQ: PSY 100, EDP 250. Offered every semester.

SECONDARY EDUCATION

EDS 306 Field Experience in Secondary Education (3) Practical experience in identifying, analyzing, and defining problems in secondary education through placement of students as teacher-aides in cooperating schools. Students registering during fall and spring semesters are required to allow at least a three-hour block for field observation responsibilities. PREREQ: EDF 100, EDP 250, and junior standing. Offered every semester.

EDS 410 Independent Study (1-3) Special topics or projects initiated by the student which will enable her/him to do extensive and intensive study in an area of secondary education which will sharply increase her/his knowledge of secondary education. PREREQ: permission of department chairperson.

EDS 412 Student Teaching and Direction of Activities (Secondary Education) Including Practicum (12) Observation and participation in teaching and all other activities related to the teacher's work in the area of the student's specialization. PREREQ: 96 semester hours including all professional-education courses. Students must have at least a 2.0 cumulative average and a 2.0 average in the major field. Offered every semester.

SOCIAL WORK—See Anthropology, Sociology and Social Welfare

SOCIOLOGY—See Anthropology, Sociology and Social Welfare

Special Education

Howard Freeman,
Chairperson

PROFESSOR: Freeman
ASSOCIATE PROFESSORS: Mitchel (Part-time), Zlotowski
ASSISTANT PROFESSOR: Nickles

Two programs in special education enable students to secure certification to teach the mentally retarded or the physically handicapped. The course sequences of the programs are extensions of existing curricula and permit students to graduate with dual certification, that is, their teaching certificates will be valid for teaching in the regular classroom and in special classes for either the mentally retarded or the physically handicapped.

The program at West Chester meets the state requirements of a minimum of 12 semester hours and is so planned that elementary students will not need to carry an overload or attend summer sessions.

Students pursuing a degree in secondary education will receive dual certification upon completion of either course sequence plus basic courses in the teaching of reading and the teaching of mathematics for the elementary grades. To attain these additional credits, secondary education students may need to attend summer sessions.

Admission to either program must be gained through screening procedures which include interviews with the special education faculty. A limited number of students from other curricula may take special education courses as electives.

NOTE: The special education program described here will be revised to be more comprehensive by September 1977. Contact the Coordinator of Special Education for information on the new program and the exact date of its implementation.

Student Teaching. In both programs, not less than four weeks nor more than nine weeks of the regular student teaching are to be allocated to a special education station.

Special education courses are scheduled to enable students to begin the program during their sophomore year. Students interested in teaching retarded or physically handicapped children should indicate their interest when planning their sophomore schedule, and are advised to see the Coordinator of Special Education.

PROGRAM FOR TEACHING THE MENTALLY RETARDED

Prerequisite: PSY 100
Requirements: (15 s.h.) EDA 241, EDA 243, EDA 344, EDA 350*; plus a course in art selected under advisement

PROGRAM FOR TEACHING THE PHYSICALLY HANDICAPPED

Prerequisite: PSY 100
Requirements: (14 s.h.) EDA 241, PED 457, PED 458, EDA 350*; plus a course in art selected under advisement

* The first four courses should be taken in order shown

COURSE DESCRIPTIONS

Symbol: EDA

241 Psychology of Exceptional Children (3) Psychology of children who are mentally gifted or retarded or who have vision, hearing, speech, or orthopedic handicaps or emotional or social problems.

243 Psychology of the Mentally Retarded (3) Etiology, diagnosis, and various treatment approaches to the mentally retarded. PREREQ: EDA 241.

330 The Academically Superior Child (3) The gifted child and means of providing an effective educational program for him.

344 Poblems in Special Education (3) Analysis of problems involving school personnel, parents, community agencies, and the cultural background of students in special education.

350 Curriculum and Methods for the Handicapped (MR-PH) (3) An introduction to methods of teaching mentally retarded and physically handicapped children. Emphasis is upon developing classroom programs and the adaptation of instructional materials for use with the retarded or physically handicapped child.

410 Independent Study (1-3) Special topics or projects initiated by the student which will enable her/him to do extensive and intensive study in an area of special education which will sharply increase her/his knowledge of special education. PREREQ: permission of coordinator.

450 Mental Health/Mental Retardation Practicum (3) Provides opportunity to engage in field work in the mental health/mental retardation field. Field and class work adapted to individual interests.

Speech Communication and Theatre

William M. Morehouse,
Chairperson

PROFESSOR: Morehouse
ASSOCIATE PROFESSORS: Berkowitz, Casagrande, Hashimoto, Keefe, Martel, Meiswinkel
ASSISTANT PROFESSORS: Del Polito, Hall, Klinzing
INSTRUCTORS: Bytnar, Saddoris

The aims of the Department of Speech Communication and Theatre are to develop the student into an independent, responsible, and effective citizen by enabling him to grasp the nature and scope of communication and performing arts. The department's degree programs are designed to train teachers of communications, theatre craftsmen, and communications professionals.

DEPARTMENT RELATED STUDENT ACTIVITIES

Little Theatre, The Forensic Society, and the West Chester College Musical Theatre Company are student organizations which have formal or informal involvement of Department faculty and resources. These activities are open to all students. For more information see: STUDENT LIFE.

BACHELOR OF ARTS PROGRAMS

The department offers two bachelor of arts degree programs. Beyond the 44 hours in general requirements, 15 hours of arts and letters core, and a demonstrated proficiency in a foreign language through the Intermediate II level, both the degree in speech communication and the degree in theatre arts require areas of concentrated study.

Department Internships

Intern experiences are provided for students by the department in work related to vocational and academic interests. Students have been placed in offices of congressmen, radio and television stations, and local industries. Both students and their intern placements are screened to assure mutual satisfaction for all parties involved. For more details, students should check with the department's internship coordinator.

1. **Bachelor of Arts in Speech Communication**

   A. Requirements:
      44 hours general education requirements
      15 hours School of Arts & Letters Core
      54 hours Speech Communication Concentration (includes completion of foreign language on intermediate level)
      30 hours cognate area

   B. Electives
      12 hours under general electives
      12 hours under cognate electives
      12 hours under advisement

   C. For specific course requirements, request a Majors Student Handbook from the department

2. **Bachelor of Arts in Theatre Arts**

   A. Requirements:
      44 hours general education requirements
      15 hours School of Arts & Letters Core
      54 hours Theatre Concentration (includes completion of foreign language on intermediate level)

   B. Electives
      12 hours under general education
      15 hours under theatre concentration
      15 hours under advisement

   C. For specific course requirements, request a Majors Student Handbook from the department.

BACHELOR OF SCIENCE IN EDUCATION—COMMUNICATIONS

This program is designed to meet Pennsylvania standards for certification of teachers of communication. Recipients of this certificate are qualified to teach English, speech, and theatre.

A. Requirements:
   44 hours general education requirements
   29 hours professional education requirements
   45 hours communication core
   15-18 hours in area of concentration

B. Areas of concentration include Speech 18 hours, Theatre 18 hours, Writing 15 hours, Language and Linguistics 15 hours, Literature 15 hours, Nonprint Media 15 hours.

C. For specific course requirements, request a Majors Student Handbook from the Department.

Note: The **Communications Core** is common to all of the areas of concentration and is the basis for triple teacher certification in English, speech and drama.

COURSE DESCRIPTIONS

Symbol: SPC

100 (also SPP 100) Bases of Speech (3) See SPP 100 for description.

101 Speech Fundamentals: Interpersonal Communication (3) Development of competencies for purposeful speech communication. Awareness of the effects of language on communications. Recognition of the types and purposes of a selected number of communications. Grasp of the role of evidence and organization in spoken messages. Offered each term.

102 (also THA 102) Oral Interpretation (3) See THA 102 for description.

105 Voice Dynamics (3) Training in the creative-esthetic production of speech including respiration, phonation, articulation, and resonation. Offered in fall.

106 (also SPP 106) Introduction to Phonetics (3) See SPP 106 for description.

107 Competency Base Effective Speech for the Teacher (3) Course designed to help education majors improve their own speech habits and to provide oral experiences directly related to classroom teaching, administrative duties, and professional service. Offered in fall.

109 Communication and Social Action (3) Development of skills necessary to understand the theory of and proficiency in communication as a problem-solving tool in the community. Special emphasis is on the student's performance as a sender and receiver of messages directed at social action. Offered in fall.

203 Argumentation and Debate (3) Functions and principles of argumentation and debate, including analysis, evidence, reasoning, and refutation. Class debating on vital issues. Offered in spring.

209 Communication Theory (3) Examines the theoretical and practical implications of basic interpersonal and mass communication theories. Offered in fall.

216 Discussion: Structured Problem Solving (3) Introduction to and practice in the structured small group. Emphasis on preparation for, analysis of, and participation in problem-solution oriented groups. Offered in fall.

217 Directing and Producing the Documentary Television Programs (3) Planning and producing the non-dramatic television production. Offered every other spring.

230 Business and pr ofessional Speech Communication (3) Practice in effective speaking and listening; reports and sales presentations; policy speeches, conference

leadership techniques, group dynamics, speaking; interpersonal communication in the business and professional setting. Offered each term.

250 Listening: Verbal and Nonverbal Perceptions (3) A study of the verbal and sensory messages we are constantly receiving. Listening as a theory and behavior; body language and the uses of space, time, touch, objects and color inherent in the sensory messages we receive. Offered each term.

301 Psychology of Speech Communication (3) Communication as a psychological phenomenon. Emotional and mental process in human communication. Function of the senses, motivation, and persouality. Offered in spring.

303 Modern Trends in Argument (3) Study of the new thinking in argumentation theory. Deemphasizes classic validity and centers on the building of arguments which are acceptable to the hearers. Work on Stephen Toulmin and Chaim Perelman is focus. Offered every other spring.

305 Communication Heritage (3) The development of critical communication variables evolved from early Sophistic Greece through modern Empiricism. Offered every other spring.

316 Discussion: Nn-Structured Group (3) A modified training group in which the group members are the focus of all interaction. Offered in spring.

317 Directing and Producing the Dramatic Television Program (3) Planning the program. Preparing the shooting script. Practice in rehearsing with actors and cameras. Offered every other spring.

318 Forensics (3) Study in the philosophy and practice of forensics. Initiating, developing, and administrating a forensic program. Coaching and judging debate and individual events. Offered in spring.

350 Communicators in Perspective (3) Study of speakers and speeches focusing on controversial public issues. Offered every other fall.

399 Directed Studies in Speech Communication (1-3) Research, creative projects, reports, reading in speech communication. Application must be made to advisors by students one semester in advance of registration. PREREQ: approval of department chairperson. Open to juniors and seniors only. Offered each term.

402 Teaching Communications (3) Theory and practice in teaching junior and senior high school communication and drama courses and in directing co-curricular programs in junior and senior high school. Offered in fall.

403 Persuasion (3) Current theories of attitude and attitude change. Practice in speaking to modify behavior through appeals to the drives and motives on the listener. PREREQ: SPC 101 or consent of instructor. Offered every other spring.

409 Intercultural Communication (3) A study into factors which contribute to communication breakdowns between diverse cultures and between fragmented segments within the same society. Offered every other fall.

415 (also LIN 415) General Semantics (3) Study of the relativistic view of language developed by Alfred Korzybski. Emphasis on language manipulation, its effect on individual behavior, and its place in interpersonal communication. Offered each term.

416 Group Communication Processes (3) Current research in small-group communication. Emphasis is on major small-group theorists and their interrelationships. Offered every other spring.

COURSE DESCRIPTIONS

Symbol: THA

100 Theatre Practice (1) Laboratory experience in technical aspects of play production. Open to all students. Offered each term.

101 Introduction to the Theatre (3) Survey of theatre as a humanity by exploring development and use of forms, styles, and elements of drama. The study includes historical periods, musicals, and Black Theatre. Offered each term.

102 (also SPC 102) Oral Interpretation I (3) Theory and practice of oral presentation of various types of literature to an audience. Offered each term.

103 Beginning Acting (3) Theory and practice in creating the character through development of the actor's physical and emotional responses. No previous experience is necessary and the course is open to non-majors. Offered each term.

104 Stagecraft (3) Planning, construction, painting, rigging, and shifting of scenery. Management of all operations backstage. Laboratory required. Offered in fall.

113 Stage Movement (3) An introduction to movement for the undergraduate actor to include actor-body emphasis concentration exercises, character development, nonverbal communication, and the integration of voice and body. Offered each term.

202 Oral Interpretation II (3) Advanced work in oral presentation of literature with emphasis on the theory and technique of readers theatre. PREREQ: THA 102. Offered every other fall.

203 Intermediate Acting (3) Theory and practice in developing actor's skills: bodily movement, character interpretation, concentration, etc. This is a beginning course for students with previous experience. Offered in fall.

206 Theatre Production (3) Selection of plays suitable for elementary schools and junior and senior high schools. Techniques for effective minimal staging. Offered in spring.

207 Children's Theatre (3) Production of children's theatre for stage and television. Course elements will include: script analysis and production values, publicity and tour preparation. Students enrolled in the course will create a complete production. Offered in spring.

209 Stage Makeup (3) Theory and practice in design and application of makeup for the stage. Offered each term.

210 Creative Dramatics (3) Theory and practice in creative techniques of expression and dramatic forms to be used as a teaching and recreational device for children and adults. Offered in fall.

215 History of Costume and Design I (3) The history of European costume from Greek to Elizabethan. Students are required to design costumes for periods studied. Offered every other fall.

216 History of Costume and Design II (3) The history of European and American costume from the 17th century to the present day. Students are required to design costumes for each of the periods studied. THA 215 is not a prerequisite. Offered every other fall.

218 History of the Theatre to 16th Century (3) Development of the theatre from primitive times through the Shakespearean period. Analysis of theatrical productions as indications of the life style of each historical period. Not offered in 1977-78.

219 History of the Theatre, 16th Century to Present (3) Development of theatre from Shakespeare to present. Analysis of theatrical productions as indications of the life style of each historical period. Offered in fall.

220 History and Aesthetics of the Oriental Theatre (3) Impact of oriental theatrical traditions on Western thought and art. Oriental integration of form and content, especially in the theatres of India, China, and Japan. Offered in spring.

301 Directing (3) Theory and practice in play direction with emphasis on play selection, script preparation, casting, blocking, and rehearsing. PREREQ: THA 103 or 203 and THA 104 or 206. Offered in fall.

303 Advanced Acting (3) Improvision, modern and period acting styles. Acting projects presented and defended before an invited audience. One hour of lab. PREREQ: THA 203. Offered in spring.

304 Scenic and Lighting Design (3) Principles and practice in designing an appropriate and expressive milieu for the play. Perspective sketches, working drawings, lighting plots, and models. Historical development of stage scenery and lighting. Offered in spring.

309 Advanced Makeup (3) Theory, development, and application of theatrical makeup according to: the play, its period, the style of production, the actor, and the character. Students must have previous knowledge of the basic two and three dimensional makeup devices. PREREQ: THA 209. Offered in spring.

311 The Psyche of Woman in Modern Drama (3) If theatre mirrors the times, there must be some reason for the preponderance of neurotic and domineering women found in dramatic literature. This course will explore the psychological and sociological reasons for this character in modern drama. Offered in spring.

399 Directed Studies in Theatre (1-3) Research, creative projects, reports, readings in theatre. Application must be made to advisors by students one semester in advance or registration. PREREQ: approval of department chairperson. Open to juniors and seniors only. Offered each term.

401 Advanced Directing (3) Directing as a creative aspect of play production. Problems in directing actors in varied styles and forms of plays. PREREQ: THA 301. Offered in spring.

404 Advanced Scenic and Lighting Design (3) Analysis of excellent scene designs of the past. Practice in maximizing the visual impact of stage scenery and lighting. Design projects for selected visually challenging plays. Students design for both student-directed and major productions on campus. One hour of lab. PREREQ: THA 304. Offered every other spring.

405 Advanced Costume Design and Construction (3) This course emphasizes the unrealistic and stylized approaches for costume design and construction. PREREQ: THA 215 or 216 and/or permission of instructor. Offered every other spring.

Speech Pathology and Audiology

Lester F. Aungst,
Chairperson

PROFESSOR: Griffith
ASSOCIATE PROFESSORS: Aungst, Maxwell, Peterson, Suppan
ASSISTANT PROFESSORS: Alson, Dempsey, Eberhart, Stigora
INSTRUCTOR: Dumas

The major in speech pathology and audiology is designed to prepare students to provide therapy in the elementary and secondary schools of

the Commonwealth and to provide students with basic knowledge of communication and communication disorders necessary for graduate work.

Upon successful completion of the program, a student may qualify for the Pennsylvania Instructional I Certificate in Speech Correction (K-12). To serve as a speech pathologist or an audiologist in a rehabilitation center, hospital, or in private practice, the student should have both a master's degree and the appropriate Certificate of Clinical Competence from the American Speech and Hearing Association.

The department operates a Speech and Hearing Clinic which serves as a teaching-training facility for the academic program. The clinic provides diagnostic and therapeutic services for children and adults with speech and hearing problems. These services are available to individuals from the college as well as the surrounding communities.

B.S. in EDUCATION—Speech Pathology and Audiology

Each student must complete the following requirements:

1. General Education, see page 60 44 s.h.
2. Arts and Letters Core 9 s.h.
   In addition to the general education requirements for humanities, the student will select nine semester hours in humanities under advisement.
3. Professional Education 30 s.h.
   EDA 241, EDF 100, EDP 250, PSY 370 or PSY 375, PSY 425, SPP 402, SPP 412
4. Specialized Preparation 45 s.h.
   PHY 110, SPP 100, SPP 106, SPP 170, SPP 202, SPP 203, SPP 204, SPP 205, SPP 290, SPP 301, SPP 304, SPP 305, SPP 350, SPP 351, SPP 404

COURSE DESCRIPTIONS

Symbol: SPP

100 (also SPH 100) Bases of Speech (3) Social, physiological, neurological, physical, phonetic-linguistic, psychological, and semantic bases of speech. An introduction to terms and concepts. Offered every fall and summer.

106 (also SPH 106) Introduction to Phonetics (3) Study of the sounds of the English language. Development of skill in their recognition, production, and transcription. Offered every spring and summer.

170 Speech and Language Development (3) Theoretical origin of speech in mankind and the development of speech in the individual. Normal development of speech is stressed. Offered every year.

201 Introduction to Speech Problems (3) Survey of speech problems in children. The teacher's role in therapy. Speech improvement in the classroom. Offered every semester.

202 Speech Pathology I (3) The symptomatology, etiology, diagnosis and treatment of communication disorders associated with articulation and voice. PREREQ: SPP 100, 106 or consent of instructor. Offered every fall and summer.

203 Speech Pathology II (3) The symptomatology, etiology, diagnosis and treatment of communication disorders associated with stuttering and neuromuscular disorders. PREREQ: SPP 100, 106, 202 or consent of instructor. Offered every fall.

204 Clinical Principles in Speech and Hearing (3) A study of evaluative and therapeutic materials and methods applicable to the professional setting. PREREQ: SPP 106, 202. Offered every fall and spring.

205 Language Disorders (3) The symptomatology, etiology, diagnosis and treatment of language disorders in children and adults including the mentally retarded, emotionally disturbed, neurologically impaired, and hearing impaired. PREREQ: SPP 170, 202. Offered every spring.

290 Anatomy of Speech and Hearing Mechanisms (3) A study of embryology, normal development, neurology and physiology of anatomical structures of the speech and hearing mechanisms. Offered every fall and summer.

301 Introduction to Audiology (3) An introduction to audiology and its relationship to other medical and educational fields concerned with hearing impairments. Developmental, medical, social, physical, and psychological properties of hearing and sound are explored. Evaluative techniques are introduced with opportunity for limited practical experience. Offered every fall.

304 Aural Rehabilitation (3) Medical, prosthetic, and educational approaches to aural rehabilitation for children and adults are considered. A comparative analysis of prevailing theories and techniques is made. A combined approach is stressed. PREREQ: SPP 301. Offered every spring.

305 Audiometry (3) A lecture-laboratory course which explores the measurement of hearing. Opportunities to develop competencies in administering basic measures are provided during lab periods. PREREQ: SPP 301. Offered every spring.

350 Clinical Practicum (2) Supervised practice in the Speech and Hearing Clinic. Designed to prepare the student to evaluate and provide therapy for children and adults who have communication problems. Must be repeated if performance is not satisfactory. PREREQ: permission of instructor. Offered every fall, spring and summer.

351 Advanced Clinical Practicum (2) PREREQ: SPP 350 and permission of instructor. Offered every fall, spring and summer.

402 School Language, Speech, and Hearing Programs (3) Orientation to and observation of the organization, administration, and operation of school speech and/or hearing programs (K-12). For speech pathology majors with consent of instructor. Offered every fall and spring.

404 Inter-Professional Seminar in Speech and Hearing (3) Explores the interrelationship between the speech or hearing therapist and members of allied professions. The course format will include having guest speakers as well as observing specialists in their employment setting. PREREQ: permission of instructor. Offered every fall and spring.

410 Independent Study (1-3) Research, creative projects, reports, reading in speech pathology and audiology. Application must be made to advisers by students one semester in advance of registration. Open to juniors and seniors only. PREREQ: approval of department chairperson. Offered upon demand.

412 Therapy in the Public Schools (Student Teaching) (12) Observation and participation in teaching and activities related to the performance of a therapist's work in the area of speech pathology and audiology. PREREQ: satisfactory completion of all required speech, hearing, and psychology courses through the sixth semester and Senior Standing. Students must have at least a 2.0 cumulative average and 2.5 average in the major field. Offered every fall and spring.

THEATRE—
See Speech Communication and Theatre

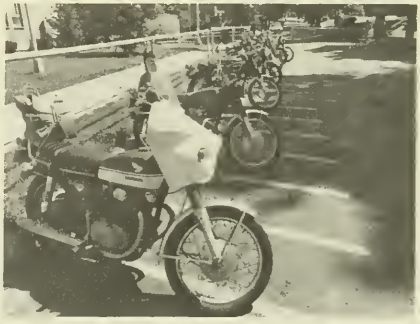
Undeclared Majors Program

Some students enter West Chester State College as Undeclared Majors. Being an Undeclared Major allows a student to enter a degree program at West Chester State College while meeting General Requirements (see page 60) and exploring courses or fields of interest. While in this Program, students have the time to search, to explore, to taste, to wonder. Enrollment in the Undeclared Majors Program is temporary; most students declare a major after one year in the program. All are expected to declare a major no later than the close of their fourth semester.

Students should understand that certain programs may require prerequisites to further study. Completion of such prerequisites if not undertaken during the period of study as an undeclared major, may prolong College attendance accordingly.

Certain programs have limited resources which may limit the number of students in the program at any one time. A student may transfer into a program from undeclared status only if there is a vacancy in the desired program. Students should make inquiry about such vacancies well in advance.

Urban Education



F. William Leeds, Associate Professor,
Coordinator

West Chester offers a special focus which strengthens the preparation of teachers who wish to work in the schools of the inner cities, where the need for skilled teachers is great.

The prospective urban teacher needs both carefully planned college courses and equally well planned experience in the schools. Because of the complexity of urban civilization and the diversity of the persons and situations he deals with, the urban teacher should have a particularly rich background in both the liberal arts and professional studies.

The focus upon urban education does not provide additional certification and does not vary essentially from the normal requirements for either the elementary or the secondary major.

Elementary education majors incorporate the urban education into their curriculum by selecting it as their area of interest.

Secondary education majors who wish to consider this special preparation must first consult with the coordinator of urban education. Unless the requirements for their field are very heavy, students are usually able to fit the urban education core into their curriculum without going beyond the 128 hours required for graduation.

COURSE DESCRIPTIONS

Symbol: EDU

360 The Disadvantaged Child (3) Backgrounds, problems, and potentialities of the disadvantaged student.

361 Teaching in Urban Schools (3) An introduction to urban education by means of observation, lectures, discussions, and related activities. PREREQ: EDU 360 or permission of instructor.

Women's Studies

Madelyn Gutwirth, Pamela Hemphill,
Coordinators

The Women's Studies Program consists of an interrelated group of courses offered across a wide spectrum of disciplines by individual departments. The program is under the supervision of the Steering Committee for Women's Studies which decides what courses are acceptable to the program. This program is envisaged primarily as an enrichment to liberal education rather than a pre-professional study, although the social transformation that is taking place both in society and in intellectual life may ultimately make study in this area a professional asset.

The aim of the program is to integrate the distaff experience into the curriculum and to encourage inquiry into previously neglected areas such as

women's history and prehistory, women writers, artists and historical figures, female psychology, and woman's place in society.

Women's Studies Courses

The Status of Women in Two Worlds (HIS 305)
Women in Modern European History (HIS 306)
Women in American (HIS 307)
Psychology of Women (PSY 490)
Bio-Medical Issues of Women and Society (NSG 414)
Women in Art (419)
Women in Contemporary Society (HUM 360)
Woman in Western Literature (HUM 361)
Images of Women in Modern Fiction (HUM 362)
American Women Writers (LIT 308)
The Psyche of Woman in Modern Drama (THA 311)
Feminist Poetry (LIT 274)

These courses are open to all students as free electives under general requirements. With permission of their departments, they may also be taken as electives within the student's program. A women's studies concentration consists of 18 credit hours, no more than 9 of which may be taken in a single department, plus a final 2 credit individualized project. Transcript recognition will be awarded upon its completion.

Descriptions of humanities courses in women's studies appear below. See departmental listings for all other courses.

HUM 360 Women in Contemporary Society (3) An interdisciplinary course designed to enable students to analyze various kinds of statements on woman, to question the implications of changing cultural patterns, and to sample, firsthand, efforts for change. P/F option.

361 Woman in Western Literature (3) A literary tableau reaching back into Classical Antiquity for some prototypes of woman in the literature of the West: seer, suppliant, rebel; victim sometimes reconciled, sometimes not. Readings from Aeschylus, Sophocles, Aristophanes, Euripides, Ovid, Dante, Petrarch, Shapeskpeare, Moliere, Austen, Flaubert, James, Tolstoy, Shaw, Cather, Giraudoux, others.

362 Images of Women in Modern Fiction (3) Literary images of women as reflected in the works of such modern writers as Lawrence, Oates, Lessing, Mailer, de Beauvior, Drabble, O'Brien, Weldon, Didion, Chopin, Moravia, Piercy. The role of women in a transitional cultural milieu.

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January, 1977

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B.A., Eastern College

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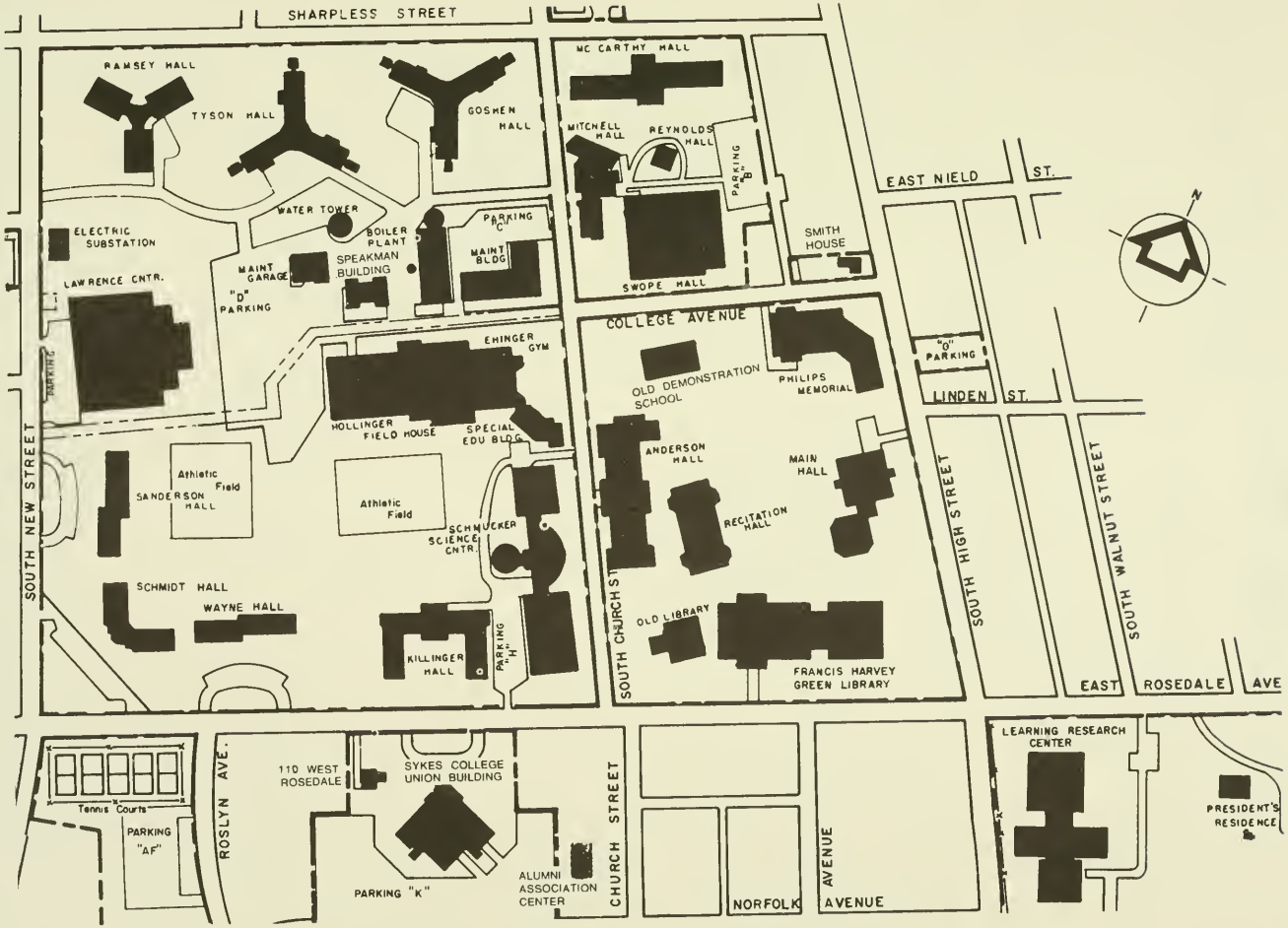

REQUEST FOR APPLICATION FORMS

(Secondary school students are asked to send this request as soon as possible following completion of their junior year.)

1. Name _____
   (Last) (First) (Middle)

2. Number and Street _____

3. City _____ State _____ Zip Code _____

4. When do you wish to enter West Chester? _____ 19____
   (State the month, September, January or June)

5. In what curriculum do you wish to enroll? (Please check one only)

   - Arts and Sciences ☐
     List Major.....
   - Business Administration ☐
   - Computer and Information Sciences ☐
   - Criminal Justice ☐
   - Elementary Education ☐
   - Health and Physical Education ☐
   - Health Education ☐
   - Music ☐
     Check the Music degree you wish to pursue:
     B.S. in Music Education
     Bachelor of Arts
     Bachelor of Music
   - Nursing ☐
   - Public Health ☐
   - Secondary Education ☐
     List Major.....
   - Speech Correction ☐
   - Undeclared Major ☐

6. Have you attended any other college? Yes ☐ No ☐

   If so, give name of the college _____

   How many semesters did you spend there? _____

7. Do you intend to apply as a Resident Student? ☐ Commuter Student? ☐

8. When will you (or when did you) graduate from secondary school?

   Month _____ Year _____

Send to:

Director of Admissions
West Chester State College
West Chester, Pennsylvania 19380
215-436-3411

Note: When this information is received, instructions for completing your application will be sent to you. Do not send application fee with this form.

Communications Directory

MAILING ADDRESS:	West Chester State College, West Chester, Pa. 19380
TELEPHONES:	Dial 436 plus number in parenthesis. For Schools, Departments, and other offices not shown here, call the College Switchboard: 436-1000. Area Code: 215.

Admissions/Catalogs	Director of Admissions, LRC (3411)
Business/Financial Matters	Director of Business Affairs, Philips (2211)
Cultural Affairs and College Events	Director of Cultural Affairs and College Events Sykes (2336)
Curricula/Enrollment/ Undergraduate Academic Matters/ Transcripts	Office of the Registrar, LRC (2420)
Financial Aid/ Work-Study	Director of Financial Aid to Students, Lawrence (2627)
General Advisement	Dean of Undergraduate Studies (2334)
Graduate Studies/ Catalogs	Dean of Graduate Studies, Administration (2243)
Higher Education Opportunity Program	Director of Higher Education Opportunity Program, Administration (2600)
IGA Business Office	Intracollegiate Governmental Association, Lawrence (2955)
Placement/Careers	Director of Career Development Center, Reynolds (2501)
Public Relations	Director of College Information and Publications, Old Library, (2231)
Veterans' Affairs	Office of Veterans' Affairs, Administration (2668)

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10 10

New Horizons '78

WEST CHESTER STATE COLLEGE

1978 SUMMER UNDERGRADUATE COURSES

UNDERGRADUATE SUMMER CALENDAR 1978

Pre-Registration begins March 15 and continues until termination date given below for each Session.

PRE SESSION

Pre-Registration ends 4:00 p.m. — **Thursday, May 25**
Registration — **Monday, June 5**
Students register according to first letter of last name:*

A through F	8:30 to 9:45 a.m.	M through R	12:30 to 1:45 p.m
G through L	9:45 to 11:00 a.m	S through Z	1:45 to 3:00 p.m

Classes begin 8:00 a.m. — **Tuesday, June 6**
Classes end — **Friday, June 23**

REGULAR SESSION

Pre-Registration ends 4:00 p.m. — **Friday, June 16**
Registration — **Monday, June 26**
Students register according to first letter of last name:*

A through F	8:30 to 9:45 a.m.	M through R	12:30 to 1:45 p.m.
G through L	9:45 to 11:00 a.m.	S through Z	1:45 to 3:00 p.m.

Classes begin 8:00 a.m. — **Tuesday, June 27**
Holidays — **Monday, July 3; Tuesday, July 4**
Classes end — **Friday, August 4**

POST SESSION

Pre-Registration ends 4:00 p.m. — **Friday, July 28**
Registration — **Monday, August 7**
Students register according to first letter of last name:*

A through F	8:00 to 9:00 a.m	M through R	10:00 to 11:00 a.m.
G through L	9:00 to 10:00 a.m.	S through Z	11:00 to 12 Noon

Classes begin 8:00 a.m. — **Tuesday, August 8**
Classes end — **Friday, August 25**

REGISTRATION LOCATION

Lawrence Center, at western end of College Avenue (see map)

*No student may register at other than his scheduled hour and date. Employed students should arrange for time off in order to register at their designated hour.

TELEPHONES (AREA CODE 215)

Summer Sessions Office	**436-2230**
Registrars Office	**436-2420**
Admissions Office	**436-3411**
Graduate Office	**436-2243**

WEST CHESTER STATE COLLEGE
UNDERGRADUATE
SUMMER SESSIONS
1978

ACCREDITATION

The Middle States Association of Colleges and Secondary Schools/The National Council for Accreditation of Teacher Education/The American Association for Health, Physical Education, and Recreation/The National Association of Schools of Music/The Council on Social Work Education, and The American Chemical Society

MARCH 1978/WEST CHESTER, PENNSYLVANIA 19380

New Horizons '78 . . .

. . . begin at West Chester State College where, no matter what your reasons for taking summer courses, your summer can mean more. Whether you're interested in acceleration of a degree program, personal enrichment, grade improvement, change of major or a study vacation, chances are, you'll find what you want at West Chester.

Thirty-five major academic departments and six inter-disciplinary areas offer a multitude of courses which can be taken just for enjoyment or as part of a degree program. The level ranges from basic to advanced with

students of all ages studying side by side.

The main-stays of any college curriculum—mathematics, the sciences, literature and the arts—are all available this summer at West Chester along with such exciting and unusual offerings as a study tour to Puerto Rico, sailing and field archaeology. Scheduling has been carefully planned to make it possible for students to take their courses while still enjoying recreation and vacations or holding down a job.

West Chester's skyline is silhouetted against the lush Chester County countryside which, though picturesque in its colonial beauty, is still just a short ride from the vital urban centers of Philadelphia and Wilmington with all their cultural and educational advantages.

But it's not just West Chester's summer horizons that are sunny. They're full of promise all year long. For more information on the college and its programs, mail the coupon in the back of this or call the Office of Admissions. Chances are, you'll find your lost horizon at West Chester.

Summary of Baccalaureate Programs at West Chester

BACHELOR OF ARTS

American Studies
Anthropology-Sociology
Art
Biology
Economics
Foreign Languages
- French
- German
- Latin
- Russian
- Spanish

Geography
History
Literature
Mathematics
Mathematics-Computer Science
Music
Philosophy
Philosophy-Religion
Physics
Political Science
Political Science—
- Public Administration

Psychology
Social Welfare
Speech Communication
Theatre Arts

BACHELOR OF MUSIC

BACHELOR OF SCIENCE

Business Administration
- Accounting
- Economics
- Management
- Marketing

Chemistry
Chemistry-Biology
Chemistry-Geology
Clinical Chemistry
Computer and
- Information Sciences

Criminal Justice
Earth Science
Nursing
Public Health

BACHELOR OF SCIENCE IN EDUCATION

Elementary Education

Secondary Education
- Biology
- Chemistry
- Communications
- Earth and Space Sciences
- English
- Foreign Languages
  - French
  - German
  - Latin
  - Russian
  - Spanish
- General Science
- Mathematics
- Physics
- Social Studies
  - Geography
  - History
  - Political Science

Health Education
Health and Physical Education
Music Education
Special Education
- Speech Pathology and
  Audiology

Cooperative Degree
- Program for Dental Hygienists

Certification Programs at West Chester

Driver Education and Safe Living
Environmental (Outdoor) Education
Teaching the Mentally Retarded
Teaching the Physically Handicapped
Athletic Coaching

GENERAL INFORMATION

ABOUT THE COLLEGE

West Chester State College is the second-largest of the fourteen institutions of higher learning operated by the Commonwealth of Pennsylvania. Now in its second century, the college is a multipurpose, comprehensive institution offering a wide range of both undergraduate and graduate programs. New courses and areas of study are constantly being developed to meet changing needs.

SUMMER SESSIONS

At West Chester State College, the summer program is divided into three sessions of three, six, and three weeks, respectively. The calendar for 1978 appears inside the front cover of this book. Course offerings for each of the sessions follow. In addition, there are a number of workshops, some of which follow a different schedule, listed under "Workshops and Special Offerings."

Additional information on the summer program can be obtained from the Office of Summer Sessions located in the Learning and Research Center. Information on specific courses or copies of West Chester's catalogs are available from the Undergraduate Office in the Learning and Research Center and the Graduate Office in Ruby Jones Hall.

HOW TO REACH WEST CHESTER

The Borough of West Chester is easily accessible from all directions both by car and public transportation. Route 3, the West Chester Pike, leads directly into town from center-city Philadelphia. From the Pennsylvania Turnpike, motorists traveling west should take Route 202 south from the Valley Forge Interchange while those traveling east can arrive via Route 100 south from the Downingtown Interchange. From the south, Route 202 from Wilmington, Delaware and Routes 100 and 52 from U.S. Route 1 all lead to West Chester.

By public transportation, SEPTA buses run from the 69th Street Terminal in Philadelphia into the center of town while trains also operate on a limited schedule from Philadelphia's 30th Street and Suburban Stations to West Chester.

A LOOK AT THE TOWN AND COUNTRY

Located in a basically agricultural region within easy commuting distance of several major metropolitan areas, West Chester offers the best of the worlds of city, country, small town, and suburbia. A community of approximately 20,000, the town is about 25 miles west of Philadelphia and 17 miles north of Wilmington, Delaware. The interstate highway system and good rail connections make New York City and Washington, D.C. also easily accessible.

West Chester is the county seat of Chester County and the hub of activity for the surrounding area. It is a marketing, banking, social services, and library center as well as a focus of light industry.

Despite recent rapid growth, West Chester retains its own special flavor and historical dignity. Originally settled by the Quakers during colonial times, the town still has streets lined with well-kept 19th Century brick houses, many with detailed ornamental iron decoration from nearby forges. West Chester residents are proud of their historical community and take care in preserving its many architectural gems including public buildings, churches and homes.

History, art, and architecture buffs can have a real field day . . . many of them actually . . . in Chester County. Within short driving distance are Valley Forge, Longwood Gardens, the Brandywine River Museum (full of paintings by the Wyeth family and other members of the Brandywine School) and the Brandywine Battlefield.

Other nearby points of interest include Anthony Waynes' farm home (Waynesborough) and his grave at St. David's Church, the house once occupied by poet Sidney Lanier, the Mason & Dixon Star-gazer's Stone, St. Peter's village noted for its old houses and quaint shops, and numerous beautiful and interesting houses and barns for which the county is highly famed.

Chester County's enthusiasm for its many cultural and historical sites is contagious so that even those whose interests generally lie in other areas are often soon caught up in flavor and feelings of the area.

HOUSING

West Chester has attractive, well-appointed high-rise residence halls. These are conveniently near Lawrence Center where the dining room, post office and snack bar are located and the Sykes College Union Building with its well-stocked store, lounges, recreation facilities and snack bar. In addition each dormitory has lounge, TV and recreation areas.

Apply for a room after sending pre-registration forms by writing to the director of housing, Room 206, Sykes College Union. This written application must be received at least one week prior to the beginning of the session for which it is being made.

THE COUNSELING CENTER

The Counseling Center, staffed by psychologists who are trained to work with college students, offers professional counseling and psychological services to students with educational, vocational, personal, social, and emotional concerns. Counseling is offered on an individual and small group basis, the nature of which varies with the needs of the student. All interviews and test results are strictly confidential.

The services of the Counseling Center are available at no charge to all West Chester State College students. Appointments may be initiated by students either by phone, 436-2301, or by visiting the Lawrence Center, Room 129, Monday through Friday, 8:00 a.m. to 4:30 p.m. Every attempt will be made to see a student within the same day, though this may vary with the demand for services.

VETERANS' AFFAIRS

West Chester is an accredited college for the education of veterans and maintains an Office of Veterans' Affairs. To apply for benefits, veterans should visit this office located in the Learning and Research Center.

FRANCIS HARVEY GREEN LIBRARY

With a collection of more than 320,000 volumes and subscriptions to more than 2,500 journals, West Chester's library is a valuable resource for study and research. The general collection is augmented by an extensive micromedia collection representing an additional 300,000 titles along with facilities for reading this material.

The Special Collections Room houses the Chester County Collection of scientific and historical books; the Normal Collection (historical books and publications by and about the faculty and alumni); The Biographies of the Signers of the Declaration of Independence by John Sanderson; and the Shakespeare Folios.

Other collections of note include a variety of audio-visual materials in the Instructional Materials Center; a comprehensive music library in Swope Hall; the Philips Autographed Book Library housed in a specially designed room in the Philips Memorial Building; and separate collections of children's literature and government documents.

WELKINWEIR

West Chester's most recent land acquisition is Welkinweir, the 166-acre, northern Chester County estate which was presented to the college as a gift by Mr. and Mrs. Everett G. Rodebaugh.

The stone mansion at Welkinweir dates back to 1750 with an 1800 addition as well as a wing added in 1940. Filled with a remarkable collection of historically valuable books, antiques and objets d'art, the resi-

dence is now used for concerts, seminars and conferences.

Highlights from among the contents include numerous authenticated Chester County pieces of furniture, an E. M. Skinner Automatic Pipe Organ (one of only five still in existence in working order in the country), a Mason & Hamlin Piano, antique clocks, an English silver collection, and a variety of oriental rugs.

Welkinweir's grounds contain a six-acre, man-made lake and seven ponds; lawns; forested areas; and unusual plantings. Access to the Appalachian Trail can be made from the Horseshoe Trail which passes through the property.

RECREATIONAL SERVICES

For those who like to get away from it all, West Chester has interesting cultural, social, and sports activities in the summer. Recreational Services—the office responsible for meeting the leisure-time needs of summer students—arranges such regular features as excursions to Robin Hood Dell in Philadelphia, Longwood Gardens and professional baseball games.

Recreational equipment is available to summer students. Items for loan range from tennis rackets, baseball equipment, volleyballs, softball bats and balls, to tents, sleeping bags, and bicycles. The equipment is loaned from Ehinger Gymnasium.

There are intramural softball and volleyball leagues for both men and women.

Social programs include dances, student-faculty coffee hours, music programs and a cinema series.

The following facilities are open for informal recreation use: Hollinger Gymnasium (College Avenue), the tennis courts on both North and South Campus, Ehinger Gymnasium, and Recreation Park, behind Sanderson Hall. Swimming will be provided as facilities are available.

For details, phone or see the Coordinator of Recreation Services, South Campus (436-2133).

PLACEMENT SERVICES

The college maintains an active Career Development Center for its students. Career services are offered to all students and alumni at no charge. Counseling and career planning are also available. Location: Lawrence Center.

EMPLOYMENT AND LOANS

Students interested in part-time or hourly work on campus or in the community, should communicate with the Office of Financial Aid, Lawrence Center. That office also has information about loans.

STUDENT HEALTH SERVICE

To meet emergency and first-aid needs and to perform routine infirmary treatment of minor illness and minor surgical conditions, two part-time physicians and a staff of registered nurses are available at no cost to students. Beyond these services, the college does not furnish medical care nor bear the costs of medical or surgical treatment or hospitalization. The community of West Chester has qualified physicians and excellent hospital facilities. The Health Service is in Reynolds Hall where, for emergencies, a nurse is on duty on a 24-hour basis, except Saturday nights from 12:00 Midnight to 8:00 a.m. Sunday.

Summer students may take advantage of a group medical and accident policy, approved by the college and covering them for the 12 weeks of the summer session, at a minimal premium. See the Health Service.

APPLYING FOR ADMISSION FOR THE ACADEMIC YEAR

The first of several steps toward admission to fall and spring semesters is the filing of application forms, available from the Office of Admissions.

SUMMER SESSIONS FEES & EXPENSES

Special Note: The fees listed below reflect charges as of Fall Semester, 1977. A small increase is expected beginning the spring semester, 1978, due to the serious fiscal crisis in Harrisburg. For up-to-date information, contact the Student Accounts Office, 436-2552.

Fees are subject to change without notice.

All charges for a session must be paid on the day of registration.

(Unless otherwise specified, fees are paid by check or money order payable to: Commonwealth of Pennsylvania. Your check or money order serves as your receipt.)

Basic Fee (Pennsylvania Residents)

$39 per semester hour of credit.

Basic Fee (Out-of-State Students)

$71 per semester hour of credit

Housing Fee (Room and Meals)

Regular Session: $210
Pre or Post Session: $105
No reduction for absences of a few days
Private rooms: $5 extra per week.
Charges for individual meals: breakfast 75¢, lunch $1.00, dinner $1.50

Music Instruction Fee

(Regular Session)
Piano, Organ, Instrument or Voice—two half-hour lessons per week. $45
Instrument Class or Ensemble. $35

Pipe Organ for Practice

Regular Session: $12
Pre or Post Session: $6
(No charge for piano for practice)

Rental of Band or Orchestral Instruments

Regular Session: $6
Pre or Post Session: $3

Late Registration Fee

The $10 late registration fee is charged when students register after the scheduling period or after registration day for any session. The Tuesday after registration day in Pre and Post Session is the last registration day and is counted as late registration. For Regular Session, the Tuesday and Wednesday after registration are the last two days to register and are counted late registration.

Dishonored Check Fee

A fee of $10 is charged to accounts with a stopped payment check and checks drawn for insufficient funds. The Late Registration Fee of $10 also applies as mentioned above

IGA Student Government Fees

All students residing in a college dormitory during summer sessions are required to pay I.G.A. Fees as follows:
Regular Session: $4.00
Pre or Post Session: $2.00
(Resident Student only)

Payment may be made by check, money order, or cash. Checks made payable to "Intracollegiate Governmental Association." A summer activity card will be issued to students paying fees which entitles the student to participate in I.G.A. services and recreational activities during the particular session.

Refunds

All refund requests must be made in writing during the session that refund concerns.

Contact the Office of the Registrar, Learning and Research Center, G-40.

Students who withdraw after registration and before attending the first scheduled class meeting are entitled to a refund of all but $10. Students who withdraw before one-third of the scheduled classes have met are entitled to a refund of one-half of the basic fees charged. Students who withdraw after one-third of the scheduled classes have met are not entitled to a refund.

In cases of personal illness, certified by the attending physician, or for emergency reasons having Trustees' approval, the college will refund the portion of basic fees covering the number of weeks remaining. All requests must be made in writing to the director of business affairs.

ACADEMIC INFORMATION

CREDITS

Credits are usually earned at the rate of one semester hour for each week of summer session. A student attending all three sessions normally earns 12 credits.

West Chester students wishing to carry more than six semester hours in Regular Session must secure permission from their advisor. Transient students must obtain advisor permission from the school to which they plan to transfer the credit.

REINSTATEMENT TO FALL SEMESTER

If a West Chester student does not attain the required cumulative index by the end of Spring semester, he may attend West Chester summer sessions in order to improve his academic average. Unless he attains the required cumulative index by the end of the sessions, he will incur academic dismissal. If he achieves the required index, he will be notified by letter from the chairperson of the Academic Standards Committee. He will need to apply for readmission.

ACADEMIC DISMISSAL

Concerning minimum standards for retention, students must consult their departmental handbook. Those admitted or readmitted after June **1973** must consult Academic Information in the current Undergraduate Studies catalog.

WITHDRAWAL FROM THE COLLEGE

West Chester State College degree candidates who wish to withdraw from the college—that is, not to return in the fall semester—should report to the Office of the Registrar.

WITHDRAWAL FROM A COURSE

Withdrawal from a course must be initiated by the student. He or she must first inform the instructor of the intention to withdraw. Then the student must go to the Office of the Registrar in the Learning and Research Center to complete the procedure. If a student fails to follow this procedure in withdrawing from a course, he or she will receive a grade of F for the course.

See "Fees and Expenses" for the withdrawal refund policy.

COURSE CHANGES

After Registration Day, the course-change periods are:

Pre and Post Sessions: the Tuesday following Registration Day.

Regular Sessions: the Tuesday and Wednesday following Registration Day.

Place: Office of the Registrar.

Course changes may also be made **before** the pre-registration deadline of a session, in the Summer Sessions Office.

TEACHER CERTIFICATION

Instructional I Certificate. A student who satisfactorily completes one of the college's teacher education curricula receives his degree from the college and qualifies for an Instructional I Certificate, issued to him by the Pennsylvania Department of Education. This certificate is valid for three years of teaching.

Instructional II Certificate. This certificate requires three years of successful teaching in Pennsylvania public schools under the Instructional I Certificate and satisfactory completion of 24 semester hours of additional work of collegiate grade, taken after the baccalaureate degree is received.

The 24-semester-credit-hour requirement may be satisfied, in whole or in part, through in-service programs approved by the Pennsylvania Secretary of Education. The Instructional II Certificate is a permanent license to teach in Pennsylvania.

Either certificate may be extended to include another field by completing the college requirements for that field. (See Undergraduate Studies Catalog.)

COLLEGE REGULATIONS AND POLICIES

Regulations pertaining to student procedure and conduct during the academic year are also in effect for summer.

The class-absence policy for the academic year applies in summer.

All academic policies may be noted in the Undergraduate Studies Catalog.

SUMMER GRADUATION

Students who expect to graduate at the end of the summer sessions are urged to attend the Spring Commencement preceding summer sessions. It is the student's responsibility to notify the Office of the Registrar in person of anticipated graduation and to see that his or her name, written as desired, is placed on the list of prospective graduates. This should be done as early as possible in the spring semester.

ADMISSION TO SUMMER SESSIONS

Admission to summer sessions is really a simple matter. First, schedule. Second, register. Scheduling is completed by submitting to the Summer Sessions Office a schedule form listing the desired course(s). (This process is also known as pre-registration.) By meeting the scheduling deadlines, the student can have a bill and schedule waiting on Registration Day. Registration is completed only when complete payment for courses has been made on Registration Day. Instructions follow.

HOW TO SCHEDULE

In this catalog (or at the Office of Admissions) are schedule forms (pre-registration). Just fill them out completely. Students in other colleges must ask a responsible official of that college or school to sign the schedule card.

Then, mail or bring the forms to the Summer Sessions Office. That's all there is to scheduling. The next move is to report to Lawrence Center on the registration day for each session.

The scheduling period begins March 15 and remains open for each session until its deadline date.

Scheduling Deadlines		**Registration Days (also Payment Days)**	
PRE:	Thurs., May 25	PRE:	Mon., June 5
REGULAR:	Fri., June 16	REGULAR:	Mon., June 26
POST:	Fri., July 28	POST:	Mon., Aug. 7

Forms must reach us by the deadline for each session (or sessions) to avoid a $10 late fee.

It is possible to change a course in the Summer Sessions Office *BEFORE the scheduling deadline* for a session. After that, no course changes may be made until registration day.

HOW TO REGISTER

On registration day (or days) bring this catalog and use the following instructions to go through the lines.

REGISTRATION INSTRUCTIONS

Place of registration. Lawrence Center

Proceed from station to station in order shown

Station I. Foyer

1. Secure calendar for session.
2. Secure classroom assignment sheet

Station II. Northeast Dining Room

1 As entering, secure registration materials

2. Enrollment Table—Change of course or Late Registration.

a) To change or drop a course, report here

b) Students who have not already scheduled, report here.

3. Scheduling and Academic Records Table.

a) August graduates, sign here for diplomas

b) Recipients of Veterans' benefits secure form here.

c) To transfer credits to another college, secure form here.

4. Fill out registration materials at designated writing tables.

5 Checking Table—Registration cards will be checked for accuracy and collected here

Station III. Northwest Dining Room

1 Pay basic fee and room-and-board fee.

2. Automobile Regulations Station—Both commuting and resident students obtain automobile decals here.

3. Student Activities Table—Pay IGA Student Government fee here. Please have check made out and ready, payable to: Intracollegiate Governmental Association

Pre or Post Session Fee	$2.00
Regular Session Fee (Resident Students Only)	$4.00

Are You Listening?

We have no payment-by-mail system for Undergraduate Summer Sessions. Payment is made at registration.

Pre Session

Monday, June 5 through Friday, June 23

Classes meet daily, Monday through Friday, unless otherwise shown.

See the Undergraduate Studies Bulletin for course descriptions which are correlated with the 1977-1978 catalog. NEW, following a course listing, indicates a course not currently described. Descriptions of these courses will be found in this publication beginning on page 40. Offerings listed are contingent upon sufficient enrollment. Semester hours of credit are shown in parentheses following course titles. Further information is available upon request from the appropriate department or from the dean of academic services.

Anthropology

8:00-9:30 a.m., 10:30 a.m.-Noon

ANT 102—Introduction to Anthropology: Cultural (3)
ANT 321—American Indian Today (3)

Art

8:00-9:30 a.m., 10:30 a.m.-Noon

ART 101—Fine Arts, Art (3)
ART 105—Art Workshop (3) (See "Summer Workshops/Other Special Offerings")

4:30-7:30 p.m.

ART 231, 232, 331, 332—Ceramics Workshop (3) (See "Summer Workshops/Other Special Offerings")

Biology

8:00-9:30 a.m., 10:30 a.m.-Noon

BIO 100—Basic Biology (3) Including Lab.
BIO 209—Human Anatomy (4) Lab Mon. through Thu. 1:00-3:00 p.m.
BIO 378—Ornithology (3) Including Lab.

4:30-7:30 p.m.

BIO 459—Regional Human Anatomy (3) Including Lab.

Business

8:00-9:30 a.m., 10:30 a.m.-Noon

BAC 201—Principles of Accounting I (3)
BAC 202—Principles of Accounting II (3)
BAC 303—Cost Accounting I (3)
BAD 101—Introduction to Business (3)
BAD 201—Business Organization and Management (3)
BFN 325—Corporate Finance (3)
BLA 301—American Legal System (3)
BMK 221—Principles of Marketing (3)

Chemistry

8:00-10:00 a.m.

CHE 103—General Chemistry I (3) June 5 through July 7 (See CRL 103 for Laboratory)
CHE 341—Physical Chemistry I (3) (See CHL 341 for Laboratory)

8:00-11:00 a.m.

SCI 370—Science and Human Values (3)

8:00-Noon

CHE 100—Chemistry and Man (4)
CHE 111—Chemistry: What People Eat (3) (For Non Science Majors; includes Laboratory)

8:30-11:00 a.m.

CHE 231—Organic Chemistry I (4) June 5 through June 30

Noon-4:00 p.m.

CRL 103—Experimental General Chemistry I (2)
CHL 341—Experimental Physical Chemistry I (2) June 5 through July 7-Tue. through Thu.

4:30-7:30 p.m.

CHE 404—Foundations of Nutrition (3)

Criminal Justice

8:00-9:30 a.m., 10:30 a.m.-Noon

CRJ 222—Criminal Justice Agencies and Their Community Responsibilities (3)
CRJ 312—Organized Crime (3)
CRJ 490—Field Placement (3) (By Appointment—Continuous from Pre through Post)

Earth Sciences

8:00-9:30 a.m., 10:30 a.m.-Noon

ESS 240—Introduction to Meteorology (3)
ESS 480—Special Topics (Field Projects) (1-3) (Must have permission of instructor-Ehleiter)

Economics

8:00-9:30 a.m., 10:30 a.m.-Noon

ECO 101/132—Principles of Economics—Survey (3) (Formerly ECO 201)
ECO 131—Principles of Economics I (Micro) (3) (Formerly ECO 231)
ECO 132/101—Principles of Economics II (Macro) (3) (Formerly ECO 232)

Elementary Education

8:00-9:30 a.m., 10:30 a.m.-Noon

EDE 200—Theory and Field Experiences in Elementary Education (3)
EDE 310—Communciation Skills in the Elementary School (3)
EDE 332—Teaching Social Studies in the Elementary School (3)
EDE 352—Self and Group Processes in the Classroom (3)
EDE 401—Creativity in the Class room (3)
EDE 406—Classroom Management (3)
ECE 205—Administration and Supervision of Early Childhood Programs (3)

English

8:00-9:30 a.m., 10:30 a.m.-Noon

ENG 120—Effective Writing I (3)
ENG 121—Effective Writing II (3)
LIT 335—Shakespeare I (3)
LIT 365—Short Story (3)

Foreign Languages

To Be Arranged

German Majors Program (3-6) (See "Summer Workshops/Other Special Offerings")
Latin Majors Program (3-6) (See "Summer Workshops/Other Special Offerings")
Self-Instructional Language Program (3-6) (See "Summer Workshops/Other Special Offerings")

Geography and Planning

8:00-9:30 a.m., 10:30 a.m.-Noon

GEO 103—Human Geography (3)
GEO 212—Urban Growth Dynamics (3)

Government and Politics

8:00-9:30 a.m., 10:30 a.m.-Noon

PSC 100—American Government and Politics (3)
PSC 338—Introduction to Political Thought (3)

Health

(See Also Physical Education)

4:30-7:00 p.m.

HED 303—Nutrition (2) Mon. through Thu.

4:30-8:00 p.m.

HED 102—Mental Health (3) Mon. through Thu.

6:00-9:30 p.m.

HED 107—Parenthood Education (3) Mon. through Thu.
HED 304—Family Life and Sex Education (3) Mon. through Thu.

History

8:00-9:30 a.m., 10:30 a.m.-Noon

HIS 101—History of Civilization I (3)
HIS 102—History of Civilization II (3)
HIS 165—Turbulent 1960's (3)
HIS 359—History of the American Frontier (3)

6:00-9:30 p.m.

HIS 301—History of South Asia (3) Mon. through Thu. beginning June 5

Instructional Media Education

8:00-9:30 a.m., 10:30 a.m.-Noon

EDM 300—Intro. to Instr. Comm. (3)

Mathematics

8:00-9:30 a.m., 10:30 a.m.-Noon

MAT 101—Mathematics for Elementary Teachers I (3)
MAT 103—Introduction to Mathematics (3)
MAT 105—College Algebra and Trigonometry (3)
MAT 107—Calculus for Business (3)
MAT 141—Calculus I (4)
MAT 161—Applied Calculus I (4)
MAT 351—Teaching Mathematics in Elementary Schools (3)
CSC 200—Cooperative Operations* (3)
CSC 300—Cooperative Applications Programming* (4)
CSC 400—Cooperative Speciality* (9)

*Permission of Dr. Fabrey Required

Philosophy

8:00-9:30 a.m., 10:30 a.m.-Noon

PHI 101—Introduction to Philosophy (3)
PHI 380—Ethics (3)

Physical Education

(See also Health Education)

12:30-2:00 p.m.

PED 101-103—Physical Activities (Tennis) (1)

6:00-8:00 p.m.

PED 101-103—Physical Activities (Horsemanship) (1)-Additional Fee Schedule

6:00-8:30 p.m.

PED 458—Physical Disabilities of Children (2)

6:00-9:30 p.m.

PED 353—Organization & Administration of P.E. & Athletics (3)
PED 356—Principles & Practices of Driver Education (3)

PED 450—Methods & Materials of Safety Education (3)
PED 449—Learning on the Move (3)

WORKSHOPS

Summer Dance Workshop
PED 347—Summer Dance Workshop (1) "See Workshops/Other Special Offerings"

Athletic Training Program "See Workshops/Other Special Offerings"

PED 357—Therapeutics for Athletic Training (3)
PED 357,L—Therapeutics for Athletic Training, Lab (2)
PED 358—Advanced Athletic Training I (3)
PED 358,L—Advanced Athletic Training I, Lab (1)
PED 359—Advanced Athletic Training II (3)

By Special Arrangement

PED 371—Outdoor Adventuring Mini Outward Bound-Service Charge $125—food, equipment (1)-all students must contact Mr. Emlyn Jones in the HPER Center

Physics

8:00-9:30 a.m., 10:30 a.m.-Noon

PHY 111—Physics and Antiphysics (3)
SCI 100—Basic Concepts in Physical Science (3)
SCI 151—Problems of our Physical Environment (3)

Psychology

8:00-9:30 a.m., 10:30 a.m.-Noon

PSY 100—Introduction to Psychology (3)
PSY 254—Social Psychology (3)
PSY 356—Study of Personality (3)

5:00-8:30 p.m.

PSY 430—Human Sexual Behavior (3) Mon. through Thu.

Secondary Education and Professional Studies

8:00-9:30 a.m., 10:30 a.m.-Noon

EDF 100—School and Society (3)
EDP 250—Psychology of Learning and Development (3)
EDP 351—Evaluation and Measurement (3)
EDS 306—Field Experience in Secondary Education (3) By permission only-See Dr. Buechele

Sociology

8:00-9:30 a.m., 10:30 a.m.-Noon

SOC 200—Introduction to Sociology (3)
SOC 352—Criminology (3)

Special Education

8:00-9:30 a.m., 10:30 a.m.-Noon

EDA 344—Problems in Special Education (3)

7:00 p.m.

EDA 241—Psychology of Exceptional Children (3)

Speech Communication and Theatre

8:00-9:30 a.m., 10:30 a.m.-Noon

SPC 101—Speech Fundamentals: Interpersonal Communication (3)

8:30 a.m.-12:30 p.m.

SPC 230—Business and Professional Speech Communication (3) (See "Summer Workshops/Other Special Offerings")

Speech Pathology and Audiology

8:00-9:30 a.m., 10:30 a.m.-Noon

SPP 100 (also SPC 100)—Bases of Speech (3)

6:00-9:30 p.m.

SPP 406—Equipment Workshop (3) (See "Summer Workshops/Other Special Offerings") Mon. through Thu.

Regular Session

Monday, June 26 through Friday, August 4

Classes meet daily, Monday through Friday, unless otherwise shown.

See the Undergraduate Studies Bulletin for course descriptions which are correlated with the 1977-1978 catalog. NEW, following a course listing, indicates a course not currently described. Descriptions of these courses will be found in this publication beginning on page 40. Offerings listed are contingent upon sufficient enrollment. Semester hours of credit are shown in parentheses following course titles. Further information is available upon request from the appropriate department or from the dean of academic services.

Anthropology

8:00-9:30 a.m.

ANT 102—Introduction to Anthropology: Cultural

9:30-11:00 a.m.

*ANT 103—Introduction to Anthropology: Archaeology (3)
*ANT 113—Archaeological Field Techniques (3)
*ANT 360—Historical Archaeology (3)

11:00 a.m.-12:30 p.m.

ANT 102—Introduction to Anthropology: Cultural (3)

*Offered separately or in any combination See Workshop/Other Special Offerings

Art

8:00-9:30 a.m.

ART 106, 206, 306—Drawing Workshop (3) (See "Summer Workshops/Other Special Offerings")
ART 231, 232, 331, 332—Ceramics Workshop (3) (See "Summer Workshops/Other Special Offerings")
ART 251—Art in Elementary School (3)

9:30-11:00 a.m.

ART 105—Art Workshop (3) (See "Summer Workshops/Other Special Offerings")
ART 216, 217, 316, 317, 226, 227—Painting Workshop (3) (See "Summer Workshops/Other Special Offerings")

11:00 a.m.-12:30 p.m.

ART 101—Fine Arts, Art (3)
ART 231, 232, 331, 332—Ceramics Workshop (3) (See "Summer Workshops/Other Special Offerings")

Biology

8:00-9:30 a.m.

BIO 203—Current Issues in Ecology (3)

9:00 a.m.-Noon, 1:00-3:00 p.m.

BIO 477—Summer Birds (1) July 10 through July 14. (See "Summer Workshops/Other Special Offerings")
BIO 476—How to Identify Common Summer Flowers (1) July 17 through July 21. (See "Summer Workshops/Other Special Offerings")

BIO 475—How to Identify Common Trees (1) July 24 through July 28. (See "Summer Workshops/Other Special Offerings")
BIO 472—The Living Forest (1) July 31 through August 4. (See "Summer Workshops/Other Special Offerings")

10:00 a.m.-Noon

BIO 272—Field Ecology and Natural History (3)

11:00 a.m.-12:30 p.m.

BIO 309—Human Physiology (4) Lab Mon. and Wed. 1:00-3:00 p.m.

Business

8:00-9:30 a.m.

BAC 201—Principles of Accounting I (3)

9:30-11:00 a.m.

BAC 202—Principles of Accounting II (3)
BAC 403—Federal Taxation (3)
BAD 302—Personnel Administration (3)
BMK 327—Marketing Management (3)

11:00 a.m.-12:30 p.m.

BAC 301—Intermediate Accounting I (3)
BAC 405—Advanced Accounting (3)
BAD 201—Business Organization and Management (3)
BMK 322—Advertising and Sales Promotion (3)

6:45-10:00 p.m.

BAC 201—Principles of Accounting I (3) Mon. and Wed.
BAC 401—Auditing (3) Tue. and Thu.

6:45-10:00 p.m.

BAD 401—Industrial Organization and Management (3) Tue. and Thu.
BAD 402—Organization Theory and Behavior (3) Mon. and Wed.

Chemistry

8:00-9:00 a.m.

CHE 321—Analytical Chemistry I (2) (Formerly: Qualitative Analysis) (See CHL 321 for Laboratory)
CHE 403—Chemistry of the Environment (2) NEW For Majors and Non Majors Prerequisite: 1 year General Chemistry (See CHL 403 for Laboratory)

8:00-10:00 a.m.

CHE 104—General Chemistry II (3) July 10 through Aug. 11. (Registration on June 26 required) (See CRL 104 for Lab)
CHE 342—Physical Chemistry II (3) July 10 through Aug. 11 (Registration on June 26 required) (See CHL 342 for Lab)
CHE 232—Organic Chemistry II (3) July 3 through Aug. 4 (Registration on June 26 required) (See CHL 237 for Lab)

9:30-11:00 a.m.

CHE 311—Geochemistry (3)
SCI 370—Science and Human Values (3)
CHE 471—Fundamentals of Biochemistry (3)

9:30-11:45 a.m.

CHE 100—Chemistry and Man (4) For Non Science Majors Only
CHE 101—Chemistry for Nurses (4) For Hospital Nurses Only (A one semester course with Lab)
CHE 111—Chemistry: What People Eat (3) For Non Science Majors (Includes Lab)

11:00 a.m.-12:30 p.m.

CHE 408—Industrial Pollution (3)

4:30-5:45 p.m.

CHE 479—Chemical Toxicology (4) NEW Mon. through Thu. Laboratory 6:00-10:00 p.m. Tue. through Thu.

Chemistry Labs

9:00 a.m.-12:30 p.m.

CHL 321—Analytical Chemistry Laboratory (3) Mon. through Thu.

11:30 a.m.-3:30 p.m.

CRL 104—Experimental General Chemistry II (2) Tue. through Thu. July 10 through Aug. 11 (Registration on June 26 required)

CHL 237—Experimental Organic Chemistry I (2) Tue. through Thu. July 5 through Aug. 4 (Registration on June 26 required)

CHL 342—Experimental Physical Chemistry II (2) Tue. through Thu. July 10 through Aug. 11 (Registration on June 26 required)

CHL 403—Environmental Chemistry Laboratory (2) NEW Tue. through Thu. (Visits to industries may be scheduled during lab periods)

CHL 471—Experimental Biochemistry (2) Tue. through Thu.

Criminal Justice

9:30-11:00 a.m.

CRJ 100—Foundations of Criminal Justice (3)

Earth Sciences

8:00-9:30 a.m.

SCE 310—Science in Elementary Grades (3)

9:30-11:00 a.m.

ESS 480—Special Topics (Petroleum) (3)

11:00 a.m.-12:30 p.m.

ESS 101—Earth Science (3)

ESS 240—Introduction to Meteorology (3)

Economics

8:00-9:30 a.m.

ECO 101/132—Principles of Economics—Survey (3) (Formerly ECO 201)

ECO 132/101—Principles of Economics II (Macro) (3) (Formerly ECO 232)

ECO 334—Labor Economics (3)

9:30-11:00 a.m.

ECO 335—Money and Banking (3)

11:00 a.m.-12:30 p.m.

ECO 131—Principles of Economics I (Micro) (3) (Formerly ECO 231)

ECO 351—Quantitative Business Analysis I (3)

6:45-10:00 p.m.

ECO 131—Principles of Economics I (Micro) (3) (Formerly ECO 231) Tue. and Thu.

Elementary Education

8:00-9:30 a.m.

ECE 202—Preschool Learning Environment (3)

EDE 310—Communication Skills in the Elementary School (3)

9:00-Noon

EDE 312—Reading Instruction and Practicum (6)

EDE 411—Student Teaching and Direction of Student Activities (Elementary Majors) Including Practicum (6)

9:30-11:00 a.m.

EDE 311—Introduction to Reading Instruction (3)

EDE 332—Teaching Social Studies in the Elementary School (3)
ECE 203—Field Experience Early Childhood (3)

11:00 a.m.-12:30 p.m.

EDE 401—Creativity in the Classroom (3)
EDE 406—Classroom Management (3)

English

8:00-9:30 a.m.

ENG 000—Basic English (0)
ENG 120—Effective Writing I (3)
LIT 101—Great American Writers (3)
LIT 295—Children's Literature (3)

9:30-11:00 a.m.

ENG 121—Effective Writing II (3)
LIT 162—Fiction (3)
LIT 336—Shakespeare II (3)

11:00 a.m.-12:30 p.m.

ENG 120—Effective Writing I (3)
ENG 230—Introduction to Linguistics (Also LIN 230) (3)
LIT 161—General Literature II (3)
LIT 306—Modern American Novel (3)

Foreign Languages

8:00-9:30 a.m.

FRE 201—Elementary French I (3)
GER 202—Intermediate German II (3)
SPA 201—Intermediate Spanish I (3)

9:30-11:00 a.m.

FRE 101—Elementary French I (3)
GER 101—Elementary German I (3)
SPA 101—Elementary Spanish I (3)

11:00 a.m.-12:30 p.m.

GER 102—Elementary German II (3)
GER 201—Intermediate German I (3)
LIN 230—Introduction to Linguistics (3)

To Be Arranged
FRE 412—Independent Study (3)
German Majors Program (3-6) (See "Summer Workshops/Other Special Offerings")
Latin Majors Program (3-6) (See "Summer Workshops/Other Special Offerings")

LAT 101—Elementary Latin I (3)
LAT 102—Elementary Latin II (3)
LAT 201—Cicero (3)
LAT 202—Virgil (3)
SPA 412—Independent Study (3)
Self-Instructional Language Program (3-6) (See "Summer Workshops/Other Special Offerings")

Geography and Planning

8:00-9:30 a.m.

GEO 236—Climatology (3)

9:30-11:00 a.m.

GEO 101—World Geography (3)

6:00-10:00 p.m.

GEO 216—Planning for Public Services (3) Mon. and Wed.
GEO 401—Cartography (4) Tue. and Thu.

Government and Politics

9:30-11:00 a.m.

PSC 100—American Government and Politics (3)
PSC 215—Politics of the Law in Society (3) (Formerly PSC 255)

11:00 a.m.-12:30 p.m.

PSC 100—American Government and Politics (3)

6:45-10:00 p.m.

PSC 100—American Government and Politics (3) Mon. and Wed.
PSC 340—Latin American Culture and Politics (3) Tue. and Thu.

Health

(See also Physical Education)

8:00-9:30 a.m.

HED 206—Human Development (3)
HED 301—Health Elementary Grades (3)

9:30-11:00 a.m.

HED 106—Living and Dying (3)
HED 306—Preparation for Classroom Teaching (3)

6:00-8:30 p.m.

HED 341—Chronic and Communicable Disease (3) Mon. through Wed.

History

8:00-9:30 a.m.

HIS 102—History of Civilization II (3)

9:30-11:00 a.m.

HIS 101—History of Civilization I (3)
HIS 309—History of the Middle East (3)

11:00 a.m.-12:30 p.m.

HIS 152—History of United States II (3)

6:00-9:30 p.m.

HIS 151—History of United States I (3) Tue. and Thu.

Instructional Media Education

8:00-9:30 a.m.

EDM 300—Intro. to Instr. Comm. (3)

9:30-11:00 a.m.

EDM 460—Basic Photography (3)

Mathematics

8:00-9:30 a.m.

MAT 101—Mathematics for Elementary Teachers I (3)
MAT 102—Mathematics for Elementary Teachers II (3)
MAT 103—Introduction to Mathematics (3)
MAT 411—Algebra I (3)

9:30-11:00 a.m.

MAT 107—Calculus for Business I (3)
MAT 108—Calculus for Business II (3)
MAT 121—Statistics I (3)
MAT 441—Advanced Calculus (3)
CSC 101—Introduction to Computers (3)
CSC 102—Introduction to Computers-Business (3)
CSC 495—Topics in Computer Science (3) (APL Programming)

11:00 a.m.-12:30 p.m.

MAT 142—Calculus II (4)
MAT 162—Applied Calculus II (4)
MAT 351—Teaching Mathematics in Elementary Schools (3)
MAT 421—Mathematical Statistics I (3)

Music

8:00-9:30 a.m.

MUS 221—Music in Western Civilization I (3)
MUS 222—Music in Western Civilization II (3)
MUS 226—Art Song (3)

9:30-11:00 a.m.

MUS 112—Theory of Music I (3)
MUS 113—Theory of Music II (3)
MUS 212—Theory of Music III (3)
MUS 213—Theory of Music IV (3)
MUS 341—Renaissance Music (3)
MUS 428—Chamber Music Literature (3)

11:00 a.m.-12:30 p.m.

MUS 114—Aural Activities I (2)
MUS 115—Aural Activities II (2)
MUS 214—Aural Activities III (2)
MUS 215—Aural Activities IV (2)
PIA 310—Accompanying (3)
WEN 111—Woodwind Ensemble (2)

By Appointment

Private instruction in piano, voice, and instruments (1 or 2 credits). (Offered only in conjunction with

music courses.)

Music

Workshops

Seventeenth Annual High School Workshop (July 17 through August 4). Music Education Workshop (July 17-July 21). (See "Summer Workshops/Other Special Offerings").

New Schedule Three-Week Courses in Music

Each of these courses meets Mon. through Fri. at times indicated.

June 26 through July 14

8:00-11:00 a.m.

MUS 121—Fine Arts (Music) (3)
MUS 328—Brass Literature (3)

July 17 through August 4

Registration for these courses will remain open through July 17.

8:00-9:30 a.m.

ICO 312—Instrumental Conducting II (2)

12:30-2:00 p.m.

CCO 212—Choral Conducting II (2)
ORC 311—Orchestra (1)

2:00-3:15 p.m.

CHO 311—Chorus (1)

3:15-4:30 p.m.

BND 311—Band (1)

Philosophy

8:00-9:30 a.m.

PHI 101—Introduction to Philosophy (3)

9:30-11 a.m.

PHI 101—Introduction to Philosophy (3)

6:30-10:00 p.m.

PHI 101—Introduction to Philosophy (3) Mon., Wed.

Physical Education

(See also Health Education)

8:00-9:00 a.m.

PED 360—Pathology for Special P.E. (2)
PED 452—Principles of Coaching (2)

8:00-9:30 a.m.

PED 355—Education for Safe Living (3)

9:00-10:30 a.m.

PED 362—Therapeutics for Special Physical Education (3)
PED 362,L—Therapeutics for Special P.E.,Lab (1) (To be taken with PED 362)

9:30-11:00 a.m.

PED 456—Prep. for Teaching Driver Education (3)

11:00 a.m.-12:30 p.m.

PED 101-103—Physical Activities (Tennis) (1)-First three weeks

12:30-1:30 p.m.

PED 200—Elementary School P.E. (2)
PED 453—Motor Learning (2)

12:30-2:00 p.m.

PED 142—Tennis/Badminton (1)

2:00-3:30 p.m.

101-108—Physical Activities (Sailing) (1)-four times/week Mon.-Thu.-Additional Fee Schedule NEW

7:00-8:30 p.m.

PED 361—Kinesiology (2)

By Special Arrangement

PED 370—Camping & Outing (3)-all students must contact Mr. Joe Lauletta in the HPER Center

Physics

8:00 a.m.-Noon

PHY 103—General Physics I (4) (June 26-July 21)
PHY 104—General Physics II (4) (July 24-August 18)

9:30-11:00 a.m.

SCI 100—Basic Concepts in Physical Science (3)
SCI 151—Problems of our Physical Environment (3)

Psychology

8:00-9:30 a.m.

PSY 100—Introduction to Psychology (3)
PSY 383—Developmental Psychology III—Adolescence (3)
PSY 365—Industrial Psychology (3)

9:30-11:00 a.m.

PSY 364—Physiological Psychology (3)
PSY 370—Mental Hygiene (3)
PSY 425—Psychological Testing and Measurement (3)

11:00-a.m.-12:30 p.m.

PSY 100—Introduction to Psychology (3)
PSY 245—Research Methods and Statistics I (3)
PSY 350—Motivation (3)
PSY 375—Abnormal Psychology (3)

6:00-9:30 p.m.

PSY 427—Behavior Modification (3) Tue. and Thu.

Secondary Education and Professional Studies

8:00-9:30 a.m.

EDF 100—School and Society (3)

9:30-11:00 a.m.

EDP 351—Evaluation and Measurement (3)
EDU 360—The Disadvantaged Child (3)

11:00 a.m.-12:30 p.m.

EDF 100—School and Society (3)
EDP 250—Psychology of Learning and Development (3)

6:00-9:30 p.m.

EDP 250—Psychology of Learning and Development (3) Mon. and Wed.
EDP 351—Evaluation and Measurement (3) Tue. and Thu.

Sociology

8:00-9:30 a.m.

SOC 353—Juvenile Delinquency (3)

9:30-11:00 a.m.

SOC 200—Introduction to Sociology (3)
SOC 362—Sexuality in Society (3)

11:00 a.m.-12:30 p.m.

SOC 200—Introduction to Sociology (3)

6:45-10:00 p.m.

SOC 200—Introduction to Sociology (3) Mon. and Wed.
SOC 250—Contemporary Social Problems (3) Tue. and Thu.

Special Education

8:00-9:30 a.m.

EDA 241—Psychology of Exceptional Children (3)

9:30-11:00 a.m.

EDA 243—Psychology of the Mentally Retarded (3)

EDA 245—Introduction to Learning Disabilities (3)

Speech Communication and Theatre

8:00-9:30 a.m.

SPC 101—Speech Fundamentals: Interpersonal Communication (3)

11:00 a.m.-12:30 p.m.

THA 300—Summer Drama Workshop (3-9) (See "Summer Workshops/Other Special Offerings")

Speech Pathology and Audiology

8:00-9:30 a.m.

SPP 202—Speech Pathology I (3)

9:30-11:00 a.m.

SPP 106 (also SPC 106)—Introduction to Phonetics (3)

11:00 a.m.-12:30 p.m.

SPP 170—Speech and Language Development (3)

To Be Arranged

SPP 350—Clinical Practicum (3)
SPP 351—Advanced Clinical Practicum (3)

Post Session

Monday, August 7
through
Friday, August 25

Classes meet daily, Monday through Friday unless otherwise shown.

See the Undergraduate Studies Bulletin for course descriptions which are correlated with the 1977-1978 catalog. NEW, following a course listing, indicates a course not currently described. Descriptions of these courses will be found in the publication beginning on page 40. Offerings listed are contingent upon sufficient enrollment. Semester hours of credit are shown in parentheses following course titles. Further information is available upon request from the appropriate department or from the dean of academic services.

Anthropology

8:00-9:30 a.m., 10:30 a.m.-Noon

ANT 102—Introduction to Anthropology: Cultural (3)

Art

8:00-9:30 a.m., 10:30 a.m.-Noon

ART 101—Fine Arts, Art (3)

6:00-9:30 p.m.

ART 331, 332—Ceramics Workshop: Raku (3) Mon. through Thu. (See "Summer Workshops/Other Special Offerings")

Biology

8:00-9:30 a.m., 10:30 a.m.-Noon

BIO 100—General Biology (3)
BIO 487—Animal Taxonomy (3)

Business

8:00-9:30 a.m., 10:30 a.m.-Noon

BAC 202—Principles of Accounting II (3)
BAC 302—Intermediate Accounting II (3)
BAD 201—Business Organization and Management (3)
BMK 221—Principles of Marketing (3)

Criminal Justice

8:00-9:30 a.m., 10:30 a.m.-Noon

CRJ 252—Criminal Justice Organization and Administration (3) (Formerly Police Organization and Administration)
CRJ 430—Parole and Probation (3)

Earth Sciences

8:00-9:30 a.m., 10:30 a.m.-Noon

ESS 520—Geology of National Parks (4) (May be taken for undergraduate credit, permission of instructor needed-Johnson)

Economics

8:00-9:30 a.m., 10:30 a.m.-Noon

ECO 101/132—Principles of Economics—Survey (3) (Formerly ECO 201)
ECO 132/101—Principles of Economics II (Macro) (3) (Formerly ECO 232)
ECO 352—Quantitative Business Analysis II (3)

Elementary Education

8:00-9:30 a.m., 10:30-Noon

EDE 310—Communication Skills in

the Elementary School (3)
ECE 204—Early Childhood Programs (3)

English

8:00-9:30 a.m., 10:30 a.m.-Noon

ENG 000—Basic English (0)
ENG 120—Effective Writing I (3)
LIT 101—Great American Writers (3)
LIT 295—Children's Literature (3)

Foreign Languages

8:00-9:30 a.m., 10:30 a.m.-Noon

FRE 102—Elementary French II (3)
FRE 202—Intermediate French II (3)
SPA 102—Elementary Spanish II (3)
SPA 202—Intermediate Spanish II (3)

Geography and Planning

6:00-10:00 p.m.

GEO 101—World Geography (3) Mon. through Thu.

To Be Arranged

GEO 312—Geography Area Field Study (Puerto Rico) (3)

Government and Politics

8:00-9:30 a.m., 10:30 a.m.-Noon

PAD 361—State and Local Government (3)
PSC 100—American Government and Politics (3)

Health Education

(See also Physical Education)

8:00-10:00 a.m.

HED 101—Health (2)

9:00 a.m.-Noon

HED 104—Human Sexuality (3)

History

8:00-9:30 a.m., 10:30 a.m.-Noon

HIS 102—History of Civilization II (3)
HIS 166—20th Century America (3)
HIS 370—American Indians (3)

Mathematics

8:00-9:30 a.m., 10:30 a.m.-Noon

MAT 103—Introduction to Mathematics (3)
MAT 105—College Algebra and Trigonometry (3)
CSC 200—Cooperative Operations* (3)
CSC 300—Cooperative Applications Programming* (4)
CSC 400—Cooperative Speciality* (9)
CSC 350—Computers in Education (3)

*Permission of Dr. Fabrey Required

Music

MUS 414—Acoustics of Music (3)

Workshops

Marching Band Conference and Workshop*, August 7-August 11
Jazz Studies Workshop*, August 14-August 18
*See "Summer Workshops/Other Special Offerings"

Philosophy

8:00-9:30 a.m., 10:30 a.m.-Noon

PHI 101—Introduction to Philosophy (3)

Physical Education

(See also Health Education)

PED 352—Applied Physiology (3)
PED 450—Methods & Materials of Safety Education (3)

12:30-2:00 p.m.

PED 101-103—Physical Activities (Tennis) (1)

Psychology

8:00-9:30 a.m., 10:30 a.m.-Noon

PSY 100—Introduction to Psychology (3)
PSY 210—Developmental Psychology (3)

Secondary Education and Professional Studies

8:00-9:30 a.m., 10:30 a.m.-Noon

EDP 351—Evaluation and Measurement (3)
EDO 411—Environmental Outdoor Education Workshop (3)

Sociology

8:00-9:30 a.m., 10:30 a.m.-Noon

SOC 200—Introduction to Sociology (3)
SOC 240—Sociology of the Family (3)

Special Education

8:00-9:30 a.m., 10:30 a.m.-Noon

EDA 420—Approaches to Mainstreaming: Handicapped Children in the Regular Classroom (3) NEW

Speech Communication and Theatre

8:30 a.m.-12:30 p.m.

THA 210—Creative Dramatics (3) (See "Summer Workshops/Other Special Offerings")

SUMMER WORKSHOPS/OTHER SPECIAL OFFERINGS

Anthropology, Sociology, and Social Welfare

Field Archaeology (ANT 103, 113, 360)

Students may register for these three courses separately or in any combination which best furthers their interests. ANT 103 is scheduled as a lecture course meeting daily from 9:30-11:00 a.m. This course is designed to provide students with the fundamentals necessary for archaeological research. ANT 113 will be offered on a schedule to be arranged but with requirements of afternoon or weekend field sessions to apply basic theory to a field situation. ANT 360 will be offered at times to be arranged and incorporates field projects used as training for ANT 113 as well as the resources of archaeology-ethnohistorical research. Students in this course will be directed toward continuing projects and will be involved in integrating field data with researched information to produce reports and displays for the College Museum.

Art

ART 105 — Art Workshop (3)
(for Non-Majors)

Pre and Regular Sessions
If Chimpanzees can paint, why can't you? Take advantage of this open workshop which our Department of Art initiated several years ago for those who just had the itch to draw or paint or design. Enthusiastic response to this course grows with each season; it explores techniques in drawing, painting, design, print-making, and 3-dimensional media.

Studio Workshops
All three sessions

A number of art workshops, open in nature, offer opportunities in drawing, painting, water color, and ceramics. These too, are for beginners as well as the more experienced. Scan the course listings for details.

Art

ART 216, 316, 317, 226, 227 — Painting Workshop (3)

Provision is made for the beginner and experienced painter in this workshop course in the techniques of oil painting and water color.

ART 251 — Art in the Elementary School (3)
Regular Session

A workshop course concerned with the effective and creative teaching of art in the elementary school, together with the innovative use of cultural and community resources.

Biology

Mini-Courses in Biology

Enthusiastic response to West Chester's mini-courses in biology has resulted in more of these one-week sessions being offered this year. Nature lovers of all age groups and varying levels of proficiency will enjoy the many field trips to observe and learn about the many species of plants and birds native to the local area. Each course will meet for five days from 9:00 a.m. to 12:00 noon and from 1:00 p.m. to 3:00 p.m.

July 10 through July 14	Summer Birds (BIO 477)
July 17 through July 21	How to Identify Common Summer Flowers (BIO 476)
July 24 through July 28	How to Identify Common Trees (BIO 475)
July 31 through August 4	The Living Forest (BIO 472)

Foreign Languages

Advanced German Courses — Advanced German Majors Program (3-6)

Students from other colleges and universities are welcome to apply for admission to the program. Students may begin any time during June and complete work in July. Time spent and credits earned will vary according to the need of students. Students must register with Mr. Ronald L. Gougher, Department of Foreign Languages.

Latin Majors Program (3-6) Students from other colleges and universities are welcome to apply for admission to the program. Students may begin any time during June and complete work in July. Time spent and credits earned will vary according to need of students. Students must register with Mr. John Rosso, Department of Foreign Languages.

Self-Instructional Language Program (3-6) Conversational Chinese, Japanese, Portuguese, and Modern Greek. During the summer of 1978 students may learn conversational Chinese, Japanese, Portuguese, and Modern Greek, depending on enrollment and staff at West Chester State College. Students must register with Mr. Ronald L. Gougher, Department of Foreign Languages, West Chester State College, West Chester, Pa., 19380.

Geography and Planning

Geography Area Field Study — Puerto Rico (3)

August 7 through 25

The Department of Geography and Planning is sponsoring a study tour to the island of Puerto Rico. Students will take field trips throughout the island including a visit to the El Yunque Tropical Rainforest, journey via air to the Virgin Islands, tour of the city of San Juan, visit to old Fort El Morro, trips to Ponce and Mayaguez, tour of a rum distillery, visit to an industrial concern and other interesting places. Accommodations will be at a hotel within the famous Condato section of San Juan with access to the beach. Meals are not included because there are restaurants in the vicinity of the hotel, both expensive and not so expensive. The group will leave Philadelphia via Eastern Airlines on August 9 in the morning and return August 16 in the evening. Three undergraduate or graduate credits will be offered for the course which is open to all interested students. A paper is required. There is ample leisure time on the itinerary to visit the beach, go shopping or do as you please. This is an opportunity to vacation while you learn and earn three credits. For additional information, contact Dr. George Langdon, 409C Anderson Hall, Phone (215) 436-2363.

MARINE SCIENCE CONSORTIUM

SUMMER 1978

As a member of the Delaware Bay Marine Science Consortium, West Chester State College offers courses in oceanography and marine sciences at the consortium field stations on Wallops Island, Virginia, during five summer sessions. Dates of sessions and course offerings are available upon request. For details contact Professor John Ehleiter, (215) 436-2788; Professor Harry Jones, (215) 436-2520; or Dean Russell Rickert at (215) 436-2540.

Music

Seventeenth Annual High School Music Workshop

July 17 through August 4

A summer music workshop for serious musicians of high school age, sponsored by the School of Music. Offerings include: band, orchestra, chorus, individual lessons, music theory, music appreciation, conducting, improvisation seminar, related arts seminar, ensembles and dance band as well as master classes in repertoire and literature for students of voice and piano. Concerts, recitals and special clinics, open to the public, are highlights. For brochure and application forms write to the High School

Music Workshop, West Chester State College. (No credit)

Music Education Workshop

July 17 through July 21

Intensive examination and utilization of **Silver Burdett Music** books and materials for the classroom teacher. Participants will select the level of classroom music best suited for their needs. The focus of instruction will be on innovative and creative ways of teaching the basic skills and concepts of music. Instructors will include **Silver Burdett Music** authors and consultants, and members of the Music Education Department staff. For further information, contact Dr. Richard Merrell, School of Music.

Marching Band Conference and Workshop

August 7 through August 11

Designed primarily for high school and college directors and students, this conference is sponsored by the West Chester State College Marching Band and the School of Music. Offerings include flags, rifle and twirling instruction for both intermediate and advanced sections; clinics in intermediate and advanced percussion; separate workshops for students and directors. Outstanding authorities participate. For information about this ninth annual band event, contact Dr. James R. Wells, Marching Band Director, School of Music.

Jazz Studies Workshop

August 14 through August 18 Fee: $60

Nationally-known jazz artists will offer classes in stage band direction, contemporary improvisation, arranging, and the pedagogy of improvisation. Designed primarily for anyone who is or will be involved with some type of jazz activity in the public schools, the workshop will accommodate those with little or no experience to those already actively involved in this field. For further information concerning the workshop and its faculty, contact Mr. James Sullivan, School of Music (436-2678).

Physical Education

Athletic Training Education Program (PED 357, 357L, 358, 358L, 359)

June 19 through August 18, 1978

A block of courses which partially fulfills the National Athletic Trainer's Association's approved program for preparation toward National Certification. The total program is an 18-hour block, with prerequisites. The school is offering twelve of these hours, which run continuously and must be taken as a block from 8:00-11:30 a.m. and 1:00-2:00 p.m., Monday

through Friday.
PED 357—Therapeutics for Athletic Training (3 credits)
PED 357,L—Therapeutics for Athletic Training, Lab (2 credits)
PED 358—Advanced Athletic Training I (3 credits)
PED 358,L—Advanced Athletic Training I, Lab (1 credit)
PED 359—Advanced Athletic Training II (3)
If interested, contact Mr. Phillip B. Donley, associate professor, School of Health, Physical Education, and Recreation. He must have applications before May 1.

Summer Dance Workshop (PED 347)

June 19 through July 7, 1978

For serious dance students of high school and college age. Morning and afternoon classes, Monday through Friday, in modern dance techniques, presented by Lida Nelson Smith and a guest teacher. For brochure and applications, write to Mrs. Lida Nelson Smith, Dance Workshop Director, School of Health and Physical Education. (1 credit)

Other Workshops and Clinics

In addition to the offerings shown above, the School of Health, Physical Education, and Recreation will conduct a number of short clinics and workshops during May and the summer. Football, gymnastics, soccer, wrestling, swimming, diving, pool direction, tennis and dance productions are among the fields covered. Interested teachers, coaches, recreation leaders or performers may obtain details from the school. (no credit)
Lloyd Shaw Foundation Square Dance Workshop—June 26 through July 2
Soccer Academy Development Program—July 31 through August 4 and August 7 through August 11
West Chester State College Swimming School—May 22 through May 26, May 29 through June 2, June 5 through June 9 and June 12 through June 16
West Chester State College Diving School—July 23 through July 28, July 30 through August 4
West Chester State College Tennis School—Adults: June 19 through June 23, June 26 through June 30, Young People (10-18): July 10 through July 14, July 17 through July 21, July 24 through July 28, Varsity Level: July 31 through August 4
West Chester State College Wrestling Clinic—July 9 through July 14, July 16 through July 21
West Chester State College Football School—week of July 4th
West Chester State College Gymnastic Clinic—July 31 through August 4

Speech Communication and Theatre

Career Campaigning (SPC 230)

June 19-June 30

Will meet 9:00 a.m.-12:30 p.m. with two afternoons to be arranged and is designed for persons who are in process of preparing for their first, second, or even third career. The workshop will focus on communication strategies necessary in choosing, planning, and pursuing a career, with emphasis on verbal and nonverbal messages communicated in the superior-subordinate relationship. Methods of and practice in goal-setting, problem-solving, interviewing, and diagnosing and improving one's own communicative effectiveness will be included. Credit may be earned through SPC 230—Business and Professional Speech Communication for 3 credits.

Summer Drama Workshop (THA 300)

Regular Session

An intensive combination of applied classroom instruction and practical production experience in repertory summer stock. There will be daily seminar-practicums each morning with production applications in the afternoons and evenings

Workshop in Creative Dramatics (THA 210)

August 7-August 18

Will be held 8:30 a.m.-12:30 p.m. daily plus two afternoons to be arranged. An exploration into the use of creative dramatics as a teaching method. Research and application of theories and techniques to be highlighted by working with children in a variety of settings. Credit may be earned in THA 210.

Speech Pathology and Audiology

SPP 406—Equipment Workshop (3)

Evaluation, selection, use and maintenance of electronic aids for the speech and hearing clinician. Demonstrations of equipment for diagnosis, therapy and classroom use. Students will have ample opportunity to work with tape recorders, auditory trainers, and special-purpose equipment during laboratory periods. Care and treatment, trouble-shooting, and calibration techniques also will be included. Open to speech pathology and audiology students with senior standing.

NEW COURSE DESCRIPTIONS

Below are brief descriptions of offerings in this catalog not contained in the 1977-1978 Undergraduate Catalog. For further information, contact the appropriate department.

The listing is alpha-numerical by course prefix and number.

EDA 420—Approaches to Mainstreaming Handicapped Children in the Regular Classroom (3)—A course for pre-service or in-service teachers, with no special education training. The course focuses on specific methods of teaching handicapped children assigned to regular classes.

PED 101-108—Physical Activities (Sailing) (1)—An introduction to the basics of sailing including both practice (approximately 20 hours) and theory (approximately 10 hours). The course will include safety, basic navigation, weather, marlinspike, seamanship, types of sailboats, sails, rigging, boat preparation and sailing. There is an additional fee schedule for the course which will be conducted at an off-campus extension facility approximately ten (10) miles from the college.

CHE 479—Chemical Toxicology (4)—A course in the basic principles of toxicological analysis. Special emphasis is placed on documentation, sampling, and verification of laboratory methods and results. The environmental and physiological aspects of chemical toxicity are explored.

FOR MORE INFORMATION . . .

If West Chester State College appeals to you, and you would like to know more about either our graduate or undergraduate programs, please complete the appropriate coupon below and send to the school for a copy of the catalog you wish. We'll be happy to send it to you.

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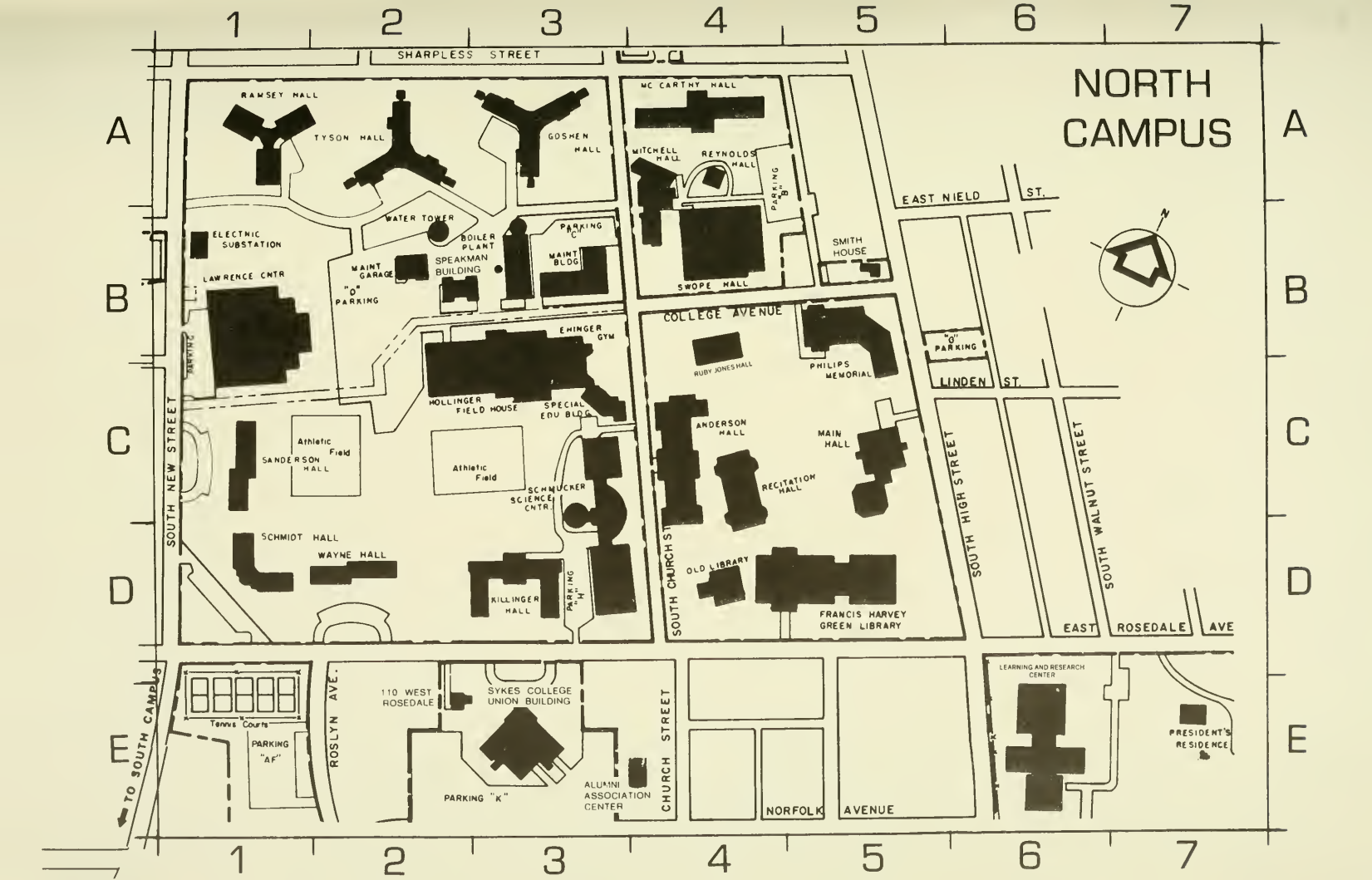
When would you wish to enter West Chester State College? 19____ September ☐ January ☐ June ☐

Are you presently attending college? Yes ☐ No ☐

Year _____ Major _____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